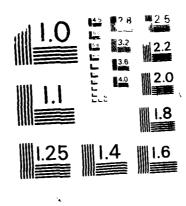
INSTALLATION RESTORATION PROGRAM PHASE 2 CONFIRMATION/QUANTIFICATION STAG (U) RADIAN CORP AUSTIN TX DEC 87 F33615-83-D-4001 AD-A198 446 1/6 F/G 24/7 UNCLASSIFIED



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DCN 87-212-027-27-01

INSTALLATION RESTORATION PROGRAM

PHASE II - CONFIRMATION/QUANTIFICATION

STAGE 1

FINAL REPORT
FOR
AIR FORCE PLANT 4
FORT WORTH, TEXAS

VOLUME 6. APPENDIX A-2 (CONTINUED)

STIC SEB 0 4 1988

HEADQUARTERS AERONAUTICAL SYSTEMS DIVISION
FACILITIES MANAGEMENT DIVISION (ASD/PMDA)
WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433-6503

AND

HEADQUARTERS, AIR FORCE SYSTEMS COMMAND COMMAND BIOENVIRONMENTAL ENGINEER (AFSC/SGPB) ANDREWS AIR FORCE BASE, DC 20334-5000

DECEMBER 1987

PREPARED BY
RADIAN CORPORATION
8501 MO-PAC BOULEVARD
POST OFFICE BOX 201088
AUSTIN, TEXAS 78720-1088

USAF CONTRACT NO. F33615-83-D-4001 DELIVERY ORDER 27 RADIAN CONTRACT NO. 212-027-27

APPROVED FOR PUBLIC RELEASE DISTRIBUTION UNLIMITED

USAFOEHL TECHNICAL PROGRAM MANAGERS
MAJOR GEORGE R. NEW
CAPTAIN ARTHUR S. KAMINSKI

UNITED STATES AIR FORCE
OCCUPATIONAL & ENVIRONMENTAL HEALTH LABORATORY (USAFOEHL)
BROOKS AIR FORCE BASE, TEXAS 78235-5501

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AD-A190 446

RADIAN

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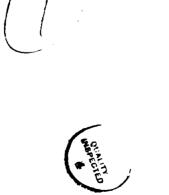
This report has been prepared for the United States Air Force by Radian Corporation, for the purpose of aiding in the implementation of the Air Force Installation Restoration Program. It is not an endorsement of any product. The views expressed herein are those of the contractor and do not necessarily reflect the official views of the publishing agency, the United States Air Force, nor the Department of Defense.

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RADIAN

APPENDIX A-2 (Continued)
Water Quality Assurance/Quality Control Data

RADIAN

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Company Sampled Address GENER Sample Point Description GROUN Stream Characteristics:	AUSTIN VIL +GREAS RECHAIN OF CUSTODY RECORD HYDROLARD 104, 860167 THE DYNAMICS - FT. WIRTH DIVISION TO LLATER Flow Flow	N- PLANTY
Company Sampled Address GENER Sample Point Description GROUN Stream Characteristics: Temperature	FlowFION	N- PLANTY
Company Sampled Address GENER Sample Point Description GROUN Stream Characteristics: Temperature	FlowFION	N- PLANTY
Sample Point Description <u>CROUN</u> Stream Characteristics: Temperature	Flow	
Sample Point Description <u>CROUN</u> Stream Characteristics: Temperature	Flow	
Temperature		
		На
		•
Collector's Name A/ENDU SOHNS	Date/Time Sampled	2-14-86
Amount of Sample Collected 21	Date/Time Sampled	stic
Sample Description	/- 0	
Store at: ☐ Ambient ☐ 5°C ☐	- 10°C ₽-Other <u>4°C</u>	
 		
☐ Caution · No more sample availab	le 🛘 Return unused portion of sample 🗀 l	Discard unused portions
Other Instructions - Special Handling	j - Hazards	
☐ Hazardous sample (see below)	□ Non-hazardous	sample
D Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C
☐ Pyrophoric	☐ Lachrymator	□ Shock sensitive
☐ Acidic	☐ Biological	☐ Carcinogenic · suspec
☐ Caustic	□ Peroxide	☐ Radioactive
Other		
Sample Allocation/Chain of Possess	sion:	
Organization Name <u>PADIANI</u>		
		Time
Received By	Date Received	Time
Received By <u> </u>	Date Received	7-100
Received By	Date Received リムル Lab Sample No ミピー ②	7-100
Received By	Date Received	7-100
Received By	Date Received リムシン Lab Sample No ミピー ロ	7-100
Received By	Date Received	19 80 Time
Received By	Date Received Lab Sample No. 86-0 Date Received Lab Sample No. 46	19.80 Time
Received By	Date Received Lab Sample No. 56-0 Date Received Lab Sample No. 36 Lab Sample No. 36 SECIES: 2 VIAS TO GE	-19-80 Time URICO
Received By	Date Received Lab Sample No. 86-0 Date Received Lab Sample No. 46	-19 80 Time U2100
Received By	Date Received Lab Sample No. 56-0 Date Received Lab Sample No. 36 Lab Sample No. 36 SECIES: 2 VIAS TO GE	19 80 Time U3/100
Transported By WENDY WHA Comments Inclusive Dates of Possession Organization Name Received By Transported By Comments Inclusive Dates of Possession Organization Name	Date Received Lab Sample No. 86-0 Date Received Lab Sample No. 36 Lab Sample No. 36 SECIES: 2 VIAS TO GE	19.80 Time 03.100 126,100

For work orders:

ICP QC DATA-PLANT 4

86-02-100 86-02-120 86-02-139 86-02-159

Form II -pg /

Q. C. Report No. 4

INITIAL AND CONTINUING CALIBRATION VERIFICATION3

LAB	NAME RA	dien			CASE	NO.	PLAN	IT 4		
					SOW !	ю				
DAI	E <u>3 - 3</u> ,	1-86			UNIT	مس	/			
		Inicia	1 Calib	.1	Cont	inding.	Calib	ration2]
Met.	als:	True Value	Found	<u> </u>	True Value	Found	===	Found	222	Method 4
1.	Aluminum									<u> </u>
2.	Antimony									
3.	Arsenic								İ	
4.	Barium	1.00	0.99	99	1.00	0.99	199	0.98	1981	l p
5.	Beryllium						<u> </u>		<u> </u>	1
6.	Cadmium	1.00	0.98	98	1.00	1.01	101	1.00	1001	1 0
7.	Calcium						1			†
8.	Chromium	1.00	0.98	98	1.00	1.01	101	0.99	1991	p
9.	Cobalt									
10.	Copper						!			
11.	Iron								1	
12.	Lead				1					
13.	Magnesium									1
14.	Manganese									
15.	Mercury	·	-							
16.	Nickel									
17.	Potassium									1
18.	Selenium						1			
19.	Silver	1.00	0.99	199	1.00	0.99	199	0.99	99	I P
20.	Sodium									
21.	Thallium								!	l
22.	Tin									1
23.	Vanadium									1
24.	Zinc									1
Other	r:									1
										1
Cyan	ide									

¹ Initial Calibration Source 2 Continuing Calabration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Usad: P - ICP/Flamm AA; F - Turnece

for work orders 86-02-100 86-02-120 86-02-139 86-02-159

Form II pg 2

Q. C. Report No. 4

NOT LOCK COOKER PLANTSCOOK TO PROVIDE AND ADDRESS OF THE PROVIDE ADDRESS OF THE PROVIDE AND ADDRESS OF THE PROVIDE ADDRESS OF THE PROVIDE AND ADDRESS OF THE PROVIDE ADDRESS OF THE PROVIDE AND ADDRESS OF THE PROVIDE AND ADDRESS OF THE PRO

INITIAL AND CONTINUING CALIBRATION VERIFICATION 3

LAB	NAME	adien			CASE	NOE	lan	24		
					SOW !	ю				
DAT	<u> 3-</u>	31-86			UNIT	- <i>119</i>	Int	1		
Com	bauoc	Initi	al Calib	.1	Cont	inuing	Calibr	ation ²		
Met	als:	True Value	Found	<u> 222</u>	True Value	Found	===	Found	<u> </u>	Method 4
1.	Aluminum		<u> </u>							
2.	Antimony		<u> </u>							<u> </u>
3.	Arsenic		<u> </u>		1	-			<u> </u>	!
4.	Barium				1.00	0.99	199		<u> </u>	P
5.	Beryllium				1		}		j	<u> </u>
6.	Cadmium)		1.00	1.03	103			Ι ρ
7.	Calcium									1 ;
8.	Chromium				1.00	1.02	102			ع ا
9.	Cobalt								1	
10.	Copper									1
11.	Iron		}	<u> </u>						1
12.	Lead				1					;
13.	Magnesium									
14.	Manganese									
15.	Mercury		-							
16.	Nickel			1						1
17.	Pocassium]							
18.	Selenium									1
19.	Silver		1	1	1,00	0.99	99			P
20.	Sodium		1	}	1					
21.	Thallium									
22.	Tin		1							
23.	Vanadium			1						
24.	Zinc									
	:			1			1	` '		
Cyan:	ide		 							

I Initial Calibration Source 2 Continuing Calibration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

For work orders 86-02-100 86-02-120 86-02-139 86-02-159

Form III

Q. C. Report No. 4
BLANKS

LIB NAME Ragian	CASE NO. PLANT 4
DATE 3-31-86	ONITS ug/ml

								
	1	Inicial	Con	cinuing C		<u>00</u>		
Preparac	1	Calibration		Blank				ration Blank
Compoun	<u>d</u>	Blank Value	1	2	3	4 !	1	
Metals:	1				1	-		
1. Alum	d num					-	<u> </u>	
2. Anti	2007				<u> </u>		 	
3. Arse	mic	: : :				<u> </u>	1	
4. Bari	um l	<.001	10.003	0.003	<.001			
5. Ber	11100		<u> </u>			<u> </u>		
6. <u>Cade</u>	ıi um	<.00A	1.002	1002	<.002			
7. Cale	dum		11		<u> </u>			
8. Caro	edua	<.005	1.005	0.006	Z.005	<u>i </u>		
9. Caba	ile .							
10. Cope	er							<u> </u>
II. Iron							1	
12. Laac							<u> </u>	
13. Mag	esium							
14. Mans	anese							
15. Merc	:117							
16. Nici	el							
17. Pot:	Issium_							
18. Sele	nium							
19. S11-	ref	<.002	10.016	0.014	12.002		l i	
20. Sadi	Lum							
21. Thai	Llium							
22. Tin							11 :	
23. Van:	dium							
24. Zine								1
Other:								
							1 }	1
Cvanide						ļ	Ιİ	

^{*} indicales value is less than 5x cal

B - 9

	7	Plant 4	86-02-100	100	9	9000	ATA - AA DIL and alease	polia.	90 0114 - A.A. vil and accose			1		
ELEMENT	ANALYSIS DATE	1	QC DATA		DUP	LICATE	DUPLICATE ANALYSIS	S S	`	SP	SPIKE RE(RECOVERY		BLANKS
		FOUND VALUE	TRUE VALUE	% R	SAMP/	SAMP	DUPL	RPD	SAMP#	SSR	SR	SA	% R	
15	2.24-86													
	C 40 = / F :	780	0.040	90	andup	600>	< 002	NC	92 NO 100 - 03A	0 034	2002	450	96	14/00
	1012100	0.4.20	2/2/2		dig dup		4	<u> </u>	ds 610					19 dard
		0.036	0.040	90	100-031	0.00	0.007	//5	100-04	6.017	< 003	0.020	85	20.03
		7.60.0	0,040	93										C00.>
Ph	3-31-86	-												
2					dup bip			,	ds 61P				1	19610
	1d = 002	0.043	0.043	28	NE0-001	0.00	800.0	0,12	100-044	0.014	4000	0.020	20	0.002
		0.043	0.043	00/					100-044 0,019	0,019	430.0	0.024	63	600.>
6									.pa1:1 85 up	incion		,,		
									100-044	026	1000	150	7	
04 6	18-30-86	0.0048	0.0050	96										
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	10.00		3											
		;		!	dup bip	666	,),	de bip	T	2007	2000	5	19 61
70	4-91-910	0.0#/	0.070	5	nco-001		33		00 sp	1	22	``		(9/02
	14/= .003	0.043	0.040	801					an 50	9/6	6.008	450	1967	3 00. y
Oilanderess	3-14-86	161	200	96										

id = instrument detection limit *=value is less then five times the instrument detection limit NC=not calculable

SX.	معرج بعدوده		Secretal System	787782	3333 <u>8</u>	SSSSS	Lexect	-			è à				
	ò	0, 00, 00				0/01	11711	,		ì	2	UNITS	- 1	in my	
	ELEMENT	ANALYSIS DATE	g ob	DATA		and L	DUPLICATE ANALYSIS	ANALYSI	90 041A	-44,000	i	SPIKE REC	RECOVERY		BLANKS
0,000			FOUND VALUE	TRUE VALUE	%R	SAMP #	SAMP	DUPL	RPD	SAMP#	SR	SSR	SA	&R	
	14	08-4E-80	0.0048	0.0020	96	dià dup -05E	4.000x	<.0002	NC	550 - -05E		<.000,00019	0.030	8	2000 >
 XXX	٥	106: .003	0.0040	0,000.0	a										
XXX	Pb	3.7-86	0.043	0.043	001					and 34 -01E	1,00.1	0.025	0.035	00/	4.00.2
		100:501	0.043	0.043	00)										<,0011
	Se	3-7-86	0.034	0.040	85					4. 15. Vot.	ζ,003	0.013	0.045	52	c. 033
X		101 = .0033	0.036	0.040	8					-01E*	(0033	0.019	20.0	76	< 0033°
	6														
	00 90 45	3-10-86	0.038	0,00	95	310-	6.003	<s< td=""><td>MC</td><td>210-</td><td>(.003</td><td>580.</td><td>460.</td><td>501</td><td>1003</td></s<>	MC	210-	(.003	580.	460.	501	1003
	6	101 : .003	0.044	0.040	011										
C.C.															
V.	9+0	3-1486	161	300	96										
S(R)		1 201													
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \															
50000															
		RPD=[(/S-D/)/((S+D)/2 RPD=relative percent d	/((S+D)/2)]x100 percent difference	SPIKE		%R=[(SSR-SR)/SA]x100	/SA]×10	*	Sample diluted and re-spiked, a low instrib recover	Sample diluted 1810 and re-spiked, due to low instral recovery		P = f	P = Map blank C = Calibration blank	ant oon blan	J.
χ_{j}															

ELEMENT	ANALYSIS DATE	QC DATA			ano	LICATE	DUPLICATE ANALYSIS	S		SPI	SPIKE RECOVERY	OVERY		BLANKS
		FOUND VALJE	TRUE VALUE	% R	SAMP /"	SAMP	DUPL	RPD	SAMP#	SR	SSR	AS.	28 28	
HC	2-216-86	430	415	701										
	1 = 1p!	245	208	118									1	
6								2.4						
00														
7											 			
									,					

		12. 12. 12. 12. 14. 86-1	13	139	0	C DATA -			At data, oll and Grease UNITS	(🕶 🔐			13.55.55 4 g fml	149 fml
ELEMENT	ANALYSIS DATE	3	DATA	İ		LICATE	ANALYSI			SPIKE		RECOVERY		BLANKS
		FOUND VALUE	TRUE VALUE	%R	SAMP/	SAMP	DUPL	RPD	SAMP#	SR	SSR	SA	86 87	
As	38-014													
	₩ 00 = /₹.	8 8 0	040	95	an dup 139.014	510	* HIO.	6.4	(u. 2p	210	1040	1024	104	lugal Cicc3
		440'	040	7/7	139-031	,003	* 750.	39	139.011	517'	.033	030	85	cal bl <.003
		940	040'	///										
		040	040	700										
the	98-7-8	0500'	.0050	700	04904p	5,0003	2000	NC	139.081	e333;	8100	06,3	96	can of <
ć	191:1003	643	0400'	501										
		.0040	2400	001										
9,5	3-7 86	643	643	001	(39-CA)				139-08A	1305	180,	153	2.8	100 / 6.00 /
	1:00:=101	140'	,043	95	andup 13908A	1000	<.001	MC						2,001
6														10.07 ×
008														
66	3-9-86	///-0'	,043	95	139034	020	180'	3.3	139 514	1710	1831	030	63	(al Dl <,(03
	101 = .00 3	07-0"	,043	93										Cat 25
50	3.9.86													,
	£00:2/p/	050'	050'	00/	dupulp 139-03A	2,000	601'5	UC	130.081	K00'	<.003	210'	Ü	14 b
		6/70	9501	86					an op 139.034	£30;5	.013	1780'	51/	6.00.2 6.00.3
		Y.							139-03A -:000	~000.	820	457	86	
an de	dup=analytical dupl	duplicate an sp=	sp=analytical sp	pike	dig dul	p=pre-d	igest du	duplicate	pike dig dup=pre-digest duplicate dig sp=pre-dig	sp=pre-digest	3 6	spike not ca	est spike NC=not calculable	ole

*=value is less then five times the instrument detection limit NC=not calculable idl = instrument detection limit

	7	1. AMA 1. 08	7 / 77	1	4	The state of the s		705/17						
ELEMENT	ANALYSIS DATE	QC DATA	i))	j	LICATE	DUPLICATE ANALYSIS	s		SPIKE		RECOVERY		BLANKS
		FOUND VALUE	TRUE VALUE	&R	SAMP!	SAMP	DUPL	RPD	SAMP#	SR	SSR	SA	%	
Out + Gueas	98-H1-8 a	161	206	96										
	1			,										
<i>P</i>	2.13.87	7//Qi	-5/70/0	75//										dy 24
7.0	200	72031	6137	2										
	100:001	8700	37.00	102										
		0000	spoo.	///										
6														i
0														
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July Mghil

	ANALYSIS DATE	QC DATA	ATA		900	LICATE	DUPLICATE ANALYSIS	S		2	SPIKE KEU	RECOVERY		BLANKS
		FOUND VALUE	TRUE VALUE	&R	SAMP!	SAMP	DUPL	RPD	SAMP#	SR	SSR	SA	%R	
bH	3.7.86	629	-26,	2%										<.000.>
6	אא י פיגיד	€8,	55.	92										4.00D2
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90.	3.13.8%	(7)	Sho'	101	*/0-	Soo	.006	36	*10"	050	-97U.	₩ ?	16.3	* (8)
		870.	-575	101										
		550,	-5/2	///					_					
								,						
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	106 = .063	. 043	050	%,					-65(10	-510	5.003	400.	6.3	c, 00/3 *
6		510.	050	06										< (10/3
01														
0	3.17.86	Ses.	(EO.	<i>†01</i>					+ 10-	J.CO.	œ	<i>γ</i> εΩ.	38	44 < 0.003
	100 - 791	C40"	040	50%										5.00.7
		70°	050.	201										** /,603_

analytical duplicate of 86-02-100-021

Form VI

Q. C. Report No.

DUFLICATES

LAB NAME	Radian
DATE	3-31-86

CASE NO. Plant 4

EPA Sample No.

Lab Sample ID No.86-02-100-02 A Units ug/al

	Маст	=x water	100/100	
ompound	Control Limit	Sample(S)	Dublicate(D)	I RPD-
etals: . Aluminum				
. Antimony				
. Arsenic				
. Bartum		0.068	0.070 -	1 2.9
. Servillum		1		
. Cacmium !		1 < 002	<.002	1 NC
. Calsium			<u> </u>	<u> </u>
3. Chromium		<.005	<.005	NC
. Cosait		<u> </u>		<u> </u>
lu. Copper		1	<u> </u>	<u> </u>
ll. <u>Iron</u>		<u> </u>		<u> </u>
12. <u>Lead</u>				
13. Magnesium		<u> </u>		<u> </u>
14. Mancanese				<u> </u>
15. Mercury			<u> </u>	
16. Nickel	· –			!
17. Potassium			<u> </u>	<u> </u>
18. Selenium		<u> </u>	<u> </u>	
19. Silver		1 < .002	0.002*	NC
20. Sodium			<u> </u>	
21. Thallium		<u> </u>	 	
22. <u>Tin</u>		<u> </u>	 	
23. Vanadium				<u> </u>
24. Zinc				!
Other:		 		
		<u> </u>	<u> </u>	
Cvanide	٠.	<u> </u>	ļ	_1

^{*} Out of Control

To be added at a later date.

 $^{2 \}text{ RPD} = [\{S - D\}/((S + D)/2)\} \times 100$

^{1 -} Non calculable RPD due to value(s) less than CRDL

^{*} indicales value is less than 54 id!

For work erder 8	6-02-100
------------------	----------

ore digistion dup of 86-02-100-021

Form VI

Q. C. Report No. 4

DUPLICATES

LAB NAME Radian	_	CASE NO. Plant 4
DATE 3-31-86		EPA Sample No. Lab Sample ID No.86-02-100-02/
	- Marain and A.	Units ug/ml

	Hatt	ix <u>water</u>	Units pig/ml	
בהשפטבס	Control Limit 1	Sample(S)	Duplicate(D)	RPD-
ietals:				
Antimony				
Arsenic				
. Barium		0.068	0.068	0
. Beryllium				
. Cactium		<.002	2.002	NC
. Calcium				
3. Chromium		<.005	<.005	NC
. Cobalt	*			
U. Copper	·			
1. Iron		<u> </u>		
2. Lead				
13. Magnesium				
4. Manganese				
5. Mercury				
6. Nickel	· ·			
7. Potassium				<u> </u>
8. Selenium				
9. Silver		<.002	0.004 *	NC
O. Sodium				
21. Thallium				
22. <u>Tin</u>				
3. Vanadium				
24. Zinc				
Dener:				
_		<u> </u>	•	

^{*} Out of Control

STATE REPORTED REPORTED RESERVED SERVING BOTTERS CONTROL CONTR

To be added at a later date.

 $^{^{2}}$ RPD = [{S - D}/((S + D)/2)} x 100

^{1 -} Non calculable RPD due to value(s) less than CRDL

^{*} indicates value is less than 5x id!

Q. C. Report No. 4 SPIKE SAMPLE RECOVERY

DATE 3-3/-86 Lab Sample ID No.96-02-100- Units ug/ml Hatrix water)					
	Control Limit	Spiked Sample	Sample	Soiked	
empound	ZR.	Result (SSR)	Result (SR)	Added (SA)	ZR!
cals:					1
Aluminum	75-125				-
Antimony	**		<u></u>		
Arsenic	•				<u> </u>
Barium	•	1.60	0.017	2.00	179
Beryllium	•				<u> </u>
Cadmium	-	0.028	2.002	0.050	56
Calcium	•			1	
Chromium	•	0.16	0,008	0.80	76
Cobalt	•				
. Copper	•			1]
. Iron	•			İ	
. Lead	1 -				
3. Magnesium	-			1	
4. Manganese	• :-				
. Mercury	•		ĺ	1	
5. Nickel	•			1	1
7. Potassium			1	i	1
8. Selenium	i •			1	<u> </u>
9. Silver	-	0.19.	0.007	0.35	1 73
O. Sodium	1 -		1		1
1. Thallium					i
2. Tin	<u> </u>		1	1	
3. Vanadium	-				
4. Zinc	 				Ī
ther:	<u> </u>	 	1		Ī
	1	1	i	1	
vanide		<u></u>		1	1

Commencs: + indicates value is uso than 5x id/

[&]quot;?"- out of control

CASE NO. PLANT 4

		form	III	
Q.	c.	Report	No.	4
		BLANKS	3	

LLE NAME Radian

DATE 3-	31-86			מס	IIIS 🛶	sq/ml_	
		Maci	1x	ter			_
	Initial	Conti	inuing Ca	libracio	<u> </u>		
Preparation	Calibration		Blank Value			Preparaci	on Blank
Compound	Blank Value	1	2	3	4	1	2
Metals:							-
i. Aluminum					-		
2. Antimony						1	
3. Arsenic							
4. Barium						1 0.003*1	
5. Beryllium							
6. Cadmium						1.002	
7. Calcium				· I			
8. Chrowing						1 < .005	
9. Cobalt							
10. Copper							
ll. Iron							
12. Lead							
13. Magnesium							
14. Manganese							
15. Mercury							
16. Nickel							
17. Potassium							
18. Selenium							
19. Silver						12.002	
20. Sodium							
21. Thallium				į			
22 <u>Tin</u>							
23. Vanadium							
24. Zine							
Other:							
Cvanide					!	11	

^{*} indicated value is less than 5 x id/

8602100-02-07

METHOD (60) METHOD (60) DETECTION LIMIT JUG/10 COMPOUND -07-63 -C4 -C5 Chloromethane C.08 8.0 0.4 Cromomethane C.18 18 5.9 Chlorotethane C.18 8 0.9 Chlorotethane C.52 52 2.6 Chlorotethane C.10 10 0.5 Chlorotethane C.1-Dichlorotethane C.1-Dichlo	Volatile Organics Wesset 4	DETECTION LIMIT	rs	
COMPOUND				
COMPOUND	HETHOD (D)		1	KETHOD
COMPOUND -OF -OF -OF -OF -OF -OF -OF -OF -OF -OF			1	DETECTION
COMPOUND			1	LIMIT
Carlor C	•			ugil
	СОМБОЛИД	-07 -02-03	-CH	705
	Chloromethane	0.08	80	0.4
Chiloroethane	Bronomethane	1.18		59
Chloroethane	Vinyl Chloride		R	$\wedge q$
	Chloroethane		50	26
	Methylene Chloride		25	1,25
1,1-Dichloroethane	Trichlorofluoromethane	0.10	10	0.5
1,1-Dichloroethane	l,1-Dichloroethene	0.13	13	0.65
Chloroform O.C5 5.0 0.25 I.2-Dichloroethane O.O3 3.0 0.15 I.1.1-Trichloroethane O.O3 3.0 0.15 Carbon Tetrachloride C.12 12 0.6 Bromodichloromethane O.O4 4.0 0.2 Irichloroethene O.O9 9.0 0.45 I-Chloroethylvinyl Ether O.O3 3.0 0.15 Compared O.O4 9.0 0.45 I-Chloroethene O.O3 3.0 0.15 I-Chloroethylvinyl Ether O.O3 3.0 0.15 I-Chloroethene O.O3 3.0 0.15 I-Chlorobenzene	l,1-Dichloroethane	0.07	7.0	0.35
1,2-Dichloroethane 1,1,1-Trichloroethane 2,03 3.0 0.15 Carbou Tetrachloride 3,00 0.15 Carbou Tetrachloride 4,0 0.5 1,2-Dichloropropane 5,00 4,0 0.3 Trichloroethane 6,10 10 0.5 1,2-Dichloropropane 7,10 10 0.3 1,2-Dichloropropane 8,00 4,0 0.3 Trichloroethane 9,00 9,0 0.45 1,3-Chloroethylvinyl Ether 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene	Trans-1,2-Dichloroethene	0.10	10	0.5
1,2-Dichloroethane	Chloroform -	0.05	5.0	0.25
Carbon Tetrachloride O.13 12 C.6 Bromodichloromethane O.10 10 0.5 I.2-Dichloropropane O.12 12 0.6 Dibromochloromethane O.09 9.0 0.45 Bromoform O.13 13 0.65 Bromoform O.30 30 1.0 Tetrachloroethene O.33 3.0 0.15 Chlorobenzene I.3-Dichlorobenzene O.33 33 1.6 I.4-Dichlorobenzene	1,2-Dichloroethane	0.03		0.15
C. 13 C. 16 C. 1	l,l,l-Trichloroethane	0.03	3.0	0.15
3 comodichloromethane		0.12	12	0.6
Trichloroethene 0.12 12 0.6 Dibromochloromethane 0.09 9.0 0.45 2-Chloroethylvinyl Ether 0.13 13 0.65 Brcmoform 0.20 20 1.0 Tetrachloroethene 0.33 3.0 0.15 Chlorobenzene 0.25 25 1.25 1,3-Dichlorobenzene 0.32 32 1.6 1,2-Dichlorobenzene 0.15 15 0.75		0.10	10	0.5
	• •	0.04	4.0	0.2
2-Chloroethylvinyl Ether 0.13 13 0.105 Bromoform 0.30 30 1.0 Tetrachloroethene 0.03 3.0 0.15 Chlorobenzene 0.35 25 1.35 1.3-Dichlorobenzene 0.32 33 1.6 1.2-Dichlorobenzene 0.15 15 0.75	<u>1</u>		12	0.6
Chloropethylvinyl Ether		0.09	9.0	0.45
Tetrachloroethene 0.30 30 1.0 Chlorobenzene 0.03 3.0 0.15 L,3-Dichlorobenzene 0.32 33 1.6 L,2-Dichlorobenzene 0.15 15 0.75		0.13	1	0.65
Tetrachloroethene 0.03 3.0 0.15 Chlorobenzene 0.25 25 1.25 1,3-Dichlorobenzene 0.32 32 1.6 1,2-Dichlorobenzene 0.15 15 0.75	Brcmoform	0.30	30	1.0
1.3-Dichlorobenzene 0.32 33 1.6 1.2-Dichlorobenzene 0.15 15 0.75		0.03	1	0.15
1,2-Dichlorobenzene 0.15 0.75 1.4-Dichlorobenzene	L	0.25	25	1.25
1,2-Dichlorobenzene 0.15 0.75	\mathbf{l}_{-}	0.32	32	
. 4-Dichloropenzene		0.15	15	T
	1,4-Dichlorobenzene	0.24	24	112

8602100-03+-07

CONTROL SECTIONS AND SECTION

DETECTION LIMITS

VOLATILE ORGANICS

METHOD COCA

COMPOUND	-02-03 -06-03	70-	DETE -(XC	DETECTION LIMIT WOJP	
BENZENE	6,3	90			
TOLUENE	0.2	20			
ETHYLBENZENE	O.3	30	(
CHLOROBENZENL	6.0	20	Į.		
1,4-DICHLOROBENZENE	0.3	30			
1,3-DICHLOROBENZENE	6.4	40			
1,2-DICHLOROBENZENE	0.4	40			
P-XWlene			O'S		
m-xulene	L	{	ර.ට		
6-X4/2nc			ري. م		

LAB #System /	3 WIL		
CLIENT NAME			
SAMPLE ID			

EPA METHOD	DATE:2/7/3L ANALYST:05 F	EPA METHOD	DATE:
601	ANALYST: 03 2	602	ANALYST:
	INSTRUMENT:	,	INSTRUMENT:
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)		(ug/L)
Chloromethane	NO	Benzene	
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethen	<u>e </u>	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane		1	
1.1.1-Trichlorethane Carbon tetrachloride		4	
Bromodichlormethane		†	
1.2-Dichloropropane		SURROGATE RECOVER	150.
Trans-1.3-Dichloroprope		601	163.
Trichloroethene	<u></u>	Browochloromethan	A
Dibromochloromethane		2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		1,4-Dichlorobutan	
cis-1.3-Dichloropropene		602	·
2-Chloroethylvinyl ethe		a,a,a,-Trifluorot	oluene
Bromoform			
1.1.2.2-Tetrachlorethan	e		
Tetrachlorethylene			
Chlorobenzene			
1.3-Dichlorobenzene			
		_	
1.2-Dichlorobenzene		1	

SECOND SECOND SOUTH SECOND CONTRACT SOUTH SECOND SE

LAB # / PIGGEN	T BUNK			
CLIENT NAME				
SAMPLE ID				
*************	*******		**********	
EPA METHOD 601	DATE: 2/19/2 ANALYST: CY INSTRUMENT	es lum	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRATI	ON	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	No	<u> </u>	Benzene	
Bromomethane			Toluene	
Vinyl Chloride			Ethyl benzene	
Chloroethane	1		Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane	· · · · · · · · · · · · · · · · · · ·		1.3-Dichlorobenzene	
1.1-Dichlorethene		}	1.2-Dichlorobenzene	·
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene	<u> </u>		M-Xylene	
Chloroform			O-Xylene	
1.2-Dichlorethane	1			
1.1.1-Trichlorethane	1			
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene			Browochloromethane	
Dibromochloromethane			2-Bromo-1-Chloropr	
1.1.2-Trichlorethane			1,4-Dichlorobutane	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	luene
Bromoform				
1.1.2.2-Tetrachlorethane				
Tetrachlorethylene				
Chlorobenzene				
1.3-Dichlorobenzene				
1.2-Dichlorobenzene			1	
1.4-Dichlorobenzene	W_			

EPA METHOD DATE: 2/17/16 602 ANALYST: 4 INSTRUMENT 601
COMPOUND CONCENTRATION (ug/L)
Benzene N2
Toluene
Ethyl benzene
Chlorobenzene
1,4-Dichlorobenzene
1.3-Dichlorobenzene
1.2-Dichlorobenzene
P-Xylene
M-Xylene
0-Xylene
SURROGATE RECOVERIES:
601
Browochloromethane
2-Bromo-1-Chloropropane
1,4-Dichlorobutane
602
a,a,a,-Trifluorotoluene
1
_

AND BUREAUS VICTORS POSTING BUREAUS FORESTON PROTOTORS BUREAUS STATES BUREAUS

LAB # [LEPIZON]	BLANK		
CLIENT NAME			
SAMPLE ID			
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2/11/31 ANALYST: CI INSTRUMENT OOL
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	No
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
I.I-Dichlorethene	·	1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroether	ne	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride		-	
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloroprop		601	
Trichloroethene		Bromochloromethan	
Dibromochloromethane		2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		l,4-Dichlorobutan	e
cis-1.3-Dichloropropen		602	
2-Chloroethylvinyl eth	er	a,a,a,-Trifluorot	oluene
Bromoform		4	
1.1.2.2-Tetrachloretha	ne	4	
<u>Tetrachlorethylene</u>		1	
Chlorobenzene		4	
1.3-Dichlorobenzene		4	
1.2-Dichlorobenzene		-{	
1.4-Dichloropenzene		•	
1		!	

DAILY QUALITY CONTAIL

= PA DE WP 483 cmc 2 + = PA DE WP 781 cmc 3

Centified Audive (mg/L) Chloromethane Chloromethane Chloroethane Chlo	7 F		5	. 6-
Bromomethane Vinv1 chloride Chloroethane Wethvlene chloride G. 2 10.3 11.2 Trichloroethane I.1-Dichloroethane I.1-Dichloroptopane I.1-Dichloroptopane I.1-Dichloroptopane I.1-Dichloroethane I.1-Dichloroethane I.1-Dichloroethane I.1-Dichloroethane I.1-Dichloroethane I.1-Dichloroethane I.1-Dichloroethane I.1-Dichloroptopane II-Dichloroethane II-Dichl				Brac
Vinv1 chloride Chloroethane 10.3 11.2 Trichlorofluoromethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 5.4 7.1 7.1 1.1-Dichloroethane 5.4 7.2 7.2 1.2-Dichloroethane 7.6 31.0 9.7 1.1.1-Trichloroethane 14.3 15.6 12.7 Carbon tetrachloride 7.9 3.7 111 Bromodichloromethane 7.9 3.7 111 1.2-Dichloropropane 8.0 3.6 12.5 Trichloroethane 16.7 14.6 14.6 1.1.2-Trichloroethane 16.7 14.6 16.3 1.1.2-Trichloroethane 16.0 16.3 16.3 1.1.2.2-Tetrachloroethane 16.0 16.3 16.3 1.1.2.2-Tetrachloroethane 16.0 16.3 16.3 1.1.2-Tetrachloroethane 16.0 16.0 16.3 1.1.2-Tetrachloroethane 16.0 16.0 16.0 1.1.2-Tetrachloroe	Chloromethane			
Chloroethane 9.2 10.3 112 Trichlorofluoromethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane <t< td=""><td>Bromomethane</td><td></td><td></td><td></td></t<>	Bromomethane			
Methylene chloride 9.2 10.3 112 Trichlorofluoromethane 1.1-Dichloroethane 1.1-Dichloroethane 1.1-Dichloroethane 1,1-Dichloroethane 5.4 5.4 5.4 Chloroform 43.0 6.1.3 150 1,2-Dichloroethane 14.3 15.6 1.7 1,1-Trichloroethane 14.3 15.6 1.7 Carbon tetrachloride 20.0 13.4 92 Bromodichloromethane 7.9 3.7 111 1.2-Dichloropropane 8.0 3.6 10.7 Pibromochloromethane 16.7 14.6 7 1,1,2-Trichloroethane 16.7 14.6 7 1,1,2-Trichloroethane 10.0 10.2 10.3 1,1,2-Tetrachloroethane 10.0 10.3 10.3 1,1,2-Tetrachloroethane 10.0 10.3 10.0 1,3-Dichlorobenzene 8.2 9.1 11 1,3-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorobenzene	Vinvl chloride			
Trichlorofluoromethane	Chloroethane			
1.1-Dichloroethane	Methylene chloride	9.2	10.3	117
1,1-Dichloroethane	Trichlorofluoromethane			
Chloroform	1.1-Dichloroethene	10.0	7.	71
Chloroform	l,l-Dichloroethane			-
1,2-Dichloroethane	trans-1,2-Dichloroethene	5.4		:= 1
1,1,1-Trichloroethane	Chloroform	43.0	64.3	120
Carbon tetrachloride 200 134 92 Bromodichloromethane 7.9 33 111 1,2-Dichloropropane 8.0 3.6 105 Trichloroethane 10.7 14.6 14.7 Dibromochloromethane 10.7 14.6 14.7 1,1,2-Trichloroethane 10.7 14.6 14.7 2-Chloroethvloropropene 10.2 10.3 10.3 2-Chloroethvlvinvl ether 10.0 10.3 10.3 1.1.2.2-Tetrachloroethane 10.0 10.3 10.3 Chlorobenzene 8.2 9.0 10.1 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene	1,2-Dichloroethane	27.6	26,2	95
Bromodichloromethane	1,1,1-Trichloroethane	14.3	15,1.	107
1.2-Dichloropropane 8.0 3.6 107 Trichloroethene 22.2 23.3 107 Dibromochloromethane 16.7 14.6 33 1.1.2-Trichloroethane 16.7 14.6 33 2-Chloroethvloropropene 2-Chloroethvloropropene 10.2 10.3 1.1.2.2-Tetrachloroethane 10.0 10.3 Tetrachloroethvlene 6.2 7.1 11 Chlorobenzene 8.2 9.1 11 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorobenzene	Carbon tetrachloride	1 200	13.4	92
Trichloroethene	Bromodichloromethane	7.9	8.8	111
Dibromochloromethane 1,1,2-Trichloroethane cis-1,3-Dichloropropene 2-Chloroethvlvinvl ether Bromoform - 9.9 - 10.2 (63) 1.1.2.2-Tetrachloroethane Tetrachloroethvlene Chlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene	l,2-Dichloropropane	8.0	3.6	105
1.1.2-Trichloroethane cis-1,3-Dichloropropene 2-Chloroethylvinyl ether Bromoform - 9.9 - 10.3 (3) 1.1.2.2-Tetrachloroethane Tetrachloroethylene Chlorobenzene 8.3 91	Trichloroethene	22.2	23.8	107 -
cis-1,3-Dichloropropene 2-Chloroethylvinyl ether Bromoform - 9.9 - 10.2 (0.3) 1.1.2.2-Tetrachloroethane Tetrachloroethylene Chlorobenzene 8.2 9.1 (1.1.2-Dichlorobenzene) 1,2-Dichlorobenzene		16.7	14.6	? ?
2-Chloroethylvinyl ether Bromoform - 9.9 - 10.2 (i)3 1.1.2.2-Tetrachloroethane Tetrachloroethylene				
1.1.2.2-Tetrachloroethane				
1.1.2.2-Tetrachloroethane Tetrachloroethvlene Chlorobenzene 1.3-Dichlorobenzene 1,2-Dichlorobenzene		-1 5.5	10.5	103
Tetrachloroethvlene Chlorobenzene 8.2 9.1 1,3-Dichlorobenzene 1,2-Dichlorobenzene				
1,3-Dichlorobenzene		6.2		
1,2-Dichlorobenzene	Chlorobenzene	8.2	9.1	1111
	1,3-Dichlorobenzene			
l,4-Dichlorobenzene	1,2-Dichlorobenzene			
	1,4-Dichlorobenzene			

DAILY QUALITY CONTROL RAS GC LAB

DATE:	0/17/86	SPIKED VALUE (ug/L)	ANAI	LYZED VA (ug/L)	LUE	`} F	Z RECOVERY	,
	INSTRUMENT		D			D	ş	
	ANALYST		e			0)		
TEST METHOD	COMPOUND							
EPA 601					j			
	Chloromethane	16.2						
	Chloroethane	28.1						
	Methylene Chloride	26.3						
	l,l-Dichloroethylene	45.0						
	Trans-1,2-Dichloroethylene	12.5						
	Carbon Tetrachloride	60.0						
	Dichlorobromomethane	40.0						
	1,1,2-Trichloroethane	33.8						
EPA 602	Benzene	30.7	35.2			115		
	Toluene	74.1	4.9			119		
	Ethylbenzene	11.5	11.9			103		
	P-Xylene	19.1	20.7			109		
	M-Xylene	42.6	43.6			114		
	0-Xylene	10.6	8.8			83		
EPA 608		(ug/g)		(ug/g)				
	Aroclor 1242	58.7						
	Aroclor 1260	56.8			L			

TO THE TOTAL CONTROL OF THE PROPERTY OF THE PR

DUPLICATE ANALYSIS

			_
-	860167		
EPA METHOD 602	- -		
VOLATILE ORGANICS			
· · · · · · · · · · · · · · · · · · ·			
aum - 20/00/100 Ar	= ~		
SAMPLE # 8002100-05	DU		
UNITS WALL			
-			
COMPOUND	RUN#1	RUN#2	RPD
<u> </u>			
Benzene			
Toluene	0.83	0.76	88
Ethyl benzene			
1,4-Dichlorobenzene			
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
0-Xylene			
M-Xylene			
P-Xylene			
Chlorobenzene			
l .	Ī.	•	

$$RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$$

RPD= Relative Percent Difference

DUPLICATE ANALYSIS

Volatile Organics						
COMPOUND UG/L	RUN#1	RUN#2	RPD	RUN#1	RUN#2	I
Chloromethane						
Bromomethane						
Vinyl chloride						
Chloroethane					-	
Methylene chloride						
Trichlorofluoromethane						
l,1-Dichloroethene						_
l,l-Dichloroethane						
trans-1,2-Dichloroethene	2045	1888	8.0			
Chloroform	0042	1555				
1,2-Dichloroethane						
1,1,1-Trichloroethane						L
Carbon Tetrachloride						
Bromodichloroemethane						
1,2-Dichloropropane						
Trichloroethene	2367	2201	7.3			
Dibromochloromethane	XJUT	201	1.7.0			
1,1,2-Trichloroethane						
cis-1,2-Dichloropropene						
2-Chloroethylvinyl ether						
Bromoform						
1,1,2,2-Tetrachloreothane						
Tetrachlorethylene			 			
Chlorobenzene			 			
1,3-Dichlorobenzene			 			
1,2-Dichlorobenzene			 			_
1,4-Dichlorobenzene			 			

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$

RPD= Relative Percent Difference *- Oud MC+ Confirm



ACCIO TERRECO SYNDERIA DESCRIPTO ESTENDA CONTRA CON

LAB #: <u>8(0021000-02B</u>
SAMPLE ID: 8001004
DATE: 2-17-80
INSTRUMENT:
-
601/8010
BROMOCHLOROMETHANE: 169%
2-BROMO-1-CHLOROPROPANE: 103%
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: 8602100-03B
SAMPLE ID: 860165
DATE: 2-17-80
INSTRUMENT: 6
601/8010
BROMOCHLOROMETHANE: 109%
2-BROMO-1-CHLOROPROPANE: 10%
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: 8000100-04D
SAMPLE ID: 800100
DATE: 2-17-80
INSTRUMENT:
•
601/8010
BROMOCHLOROMETHANE: 101%, 109%
2-BROMO-1-CHLOROPROPANE: 118%, 137%
602/802 0
a,a,a-TRIFLUOROTOLUENE:



ACCIO SERVINO INCORNAD RECOCOCIO POPORO POPORO POPORO POPORO POPORO POPORO POPORO POPORO POPORO POPORO

LAB #: 8600100-05B
SAMPLE ID: 860167
DATE: 2-17-86
INSTRUMENT: 6
601/8010
BROMOCHLOROMETHANE: 99%
2-BROMO-1-CHLOROPROPANE: 113%
•
602/802 0
a,a,a-TRIFLUOROTOLUENE:



LAB #: 8002100-07A
SAMPLE ID: TRIP BLACK
DATE: 2-17-80
INSTRUMENT: G
601/8010
BROMOCHLOROMETHANE: 113%
2-BROMO-1-CHLOROPROPANE: 100
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: 8100-020
SAMPLE ID: 860164
DATE: 3-17-80
INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 111%



LAB #: 8602100-03D
SAMPLE ID: 800165
DATE: 2-17-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 115%

LAB #: 86000100-04F
SAMPLE ID: 800100
DATE: 2-17-86
INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: 114%



LAB #: 86002100-05D
SAMPLE ID: 800107
DATE: 2-17-86
INSTRUMENT:
601/8010
001/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 119% 111%



LAB #: 8602100-00B
SAMPLE ID: 840 0108
DATE: 2-17-86
INSTRUMENT: D
(01/0010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a.a.a-TRIFLUOROTOLUENE: 1/20%



TOTAL BURGOUSE CONTROL SONDER SONDER MONORANT SINGER DE SONDER BURGOUSE DE SONDE PROSECTO DE SONDE POSSONE POS

LAB #: 8600100-07A
SAMPLE ID: TRIP BLANK
DATE: 0-17-86
INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: 1070



EPA 625: 860164, 860165, 860166

CHAIN OF CUSTODY RECORD

		Field Sample No
Company Sampled / Address	resal Amamico - 70	ort Worth Plant 4
Sample Point Description	indlotti	
Stream Characteristics:		
Temperature	Flow	pH
Visual Observations/Comments	*	
Collector's Named Althur Mog 2	Date/Time Sample	= -14-8/a
Collector's Name Althur Mork Amount of Sample Collected 51X	1000 ml Amber Illa	M
Sample Description	10°C XOther 4°C	
	•	
⊠/Caution - No more sample available	☐ Return unused portion of samp	le 🗆 Discard unused portions
Other Instructions - Special Handling -		
		_
Hazardous sample (see below)	∕ □ Non-haza	ardous sample
Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C
Pyrophoric	□ Lachrymator	Shock sensitive
□ Acidic	☐ Biological	Carcinogenic · suspect
□ Caustic	☐ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain of Possessio	n: 🕜	
Organization Name Kadea	n Corp	
Organization Name Kada Received By Transported By T	2 Date Received	1 Time
Transported By What run Mond	Lab Sample No	6-02-109
Comments		· · · · · · · · · · · · · · · · · · ·
Inclusive Dates of Possession	-14-86	<u> </u>
Organization Name Colian A.	ralytical Spylices	
Received By		1 2-18-7, Time
Transported By - coleral		· • • • • • • • • • • • • • • • • • • •
Comments	·	
Inclusive Dates of Possession		
Organization Name	•	
Received By		i Time
Transported By		
Comments	•	
Inclusive Dates of Possession		

EPA 601 860172,860169 METALS 860,72,860169 EPA LOZ 860172, 860169 UIL . GREASE SLUITY, SCOIL 9, SCOITZ CHAIN OF CUSTODY RECORD AUSTIN HCFUEZS: 860174, 860169, 860172 Field Sample No. _____ CHRUNIUM 860169, 820172 Company Sampled Address General Dynamics - Ft. Worth, Flant 4 Sample Point Description frank Water Stream Characteristics: _____ Flow _____ Temperature _____ Visual Observations/Comments Collector's Name W Johnson Date/Time Sampled 2 - 18 - 8 5 Amount of Sample Collected Siv MASUN JANUS FOUR SOUM plushe, 8 VOA'S Sample Description <u>Grand With</u>
Store at: □ Ambient □ 5°C □ − 10°C ➡Other <u>+°C</u> ☑ Caution - No more sample available ☐ Return unused portion of sample ☐ Discard unused portions Other Instructions - Special Handling - Hazards _____ ∀ Hazardous sample (see below) □ Non-hazardous sample **▼** Toxic ☐ Flammable (FP< 40°C) ☐ Skin irritant ☐ Pyrophoric ☐ Lachrymator ☐ Shock sensitive ☑ Carcinogenic · suspect ☐ Acidic ☐ Biological ☐ Caustic ☐ Peroxide ☐ Radioactive ☐ Other Sample Allocation/Chain of Possession: Organization Name Rudium Conf

•	EPA 601: 860170, 820171	CAMULIUM 80,70,820,
DADIAN	12 P/1 60 2 10 10 10 10 10 10 10 10 10 10 10 10 10	
CORPORATION	METHYLE CHAIN OF CUSTODY RECORD	METMS 860173,866171
AUSTIN		
7,013,770	OIL GREASE 860173,860170,86017,	
	HU PULES: 820,70, 860,171	Field Sample No.
Company Sampled / Addres	Meneral Donumers Ft. Work	L. Plunt 4
Sample Point Description	Sprew Dogmes Ft. Work	
Stream Characteristics:		
	Flow	nH
•	nents	
713441		
Collector's Name W	vinsy Date/Time Sampled	1-18-52
Amount of Sample Collecte	od FULL I QTMASUN, FULL PLUSTIC, TWO	VE VUA'S
Sample Description	moderate	
Store at:	5°C □ -10°C 中Other 4°C	
☐ Caution - No more samp	le available 🔲 Return unused portion of sample	☐ Discard unused portions
Other Instructions - Specia	l Handling - Hazards	
🏋 Hazardous sample (see l	below) Non-hazard	dous sample
∰ Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
∕ □ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
☐ Acidic	☐ Biological	D ∕Carcinogenic · suspect
□ Caustic	□ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain o		
Organization Name <u>Polyd</u>	lian cop	
Received By	Date Received Lab Sample No	Time
Comments	2 16 10	
Inclusive Dates of Possess	ion <u>2-18-82</u>	
Organization Name	, · · · · · · · · · · · · · · · · · · ·	
Received By	Date Received	Time
Transported By	Lab Sample No.	50/3112
Comments	2 VCA9 (A) 500C17	3 16 CIC (AL. 18.1
Inclusive Dates of Possess	ion	
Organization Name		
=	Date Received	
•	Lab Sample No.	
•		
nclusive Dates of Possess		

			<u> </u>	ora II					
			C. Repo						
_	INITIA	L AND CO	NTINUIN	G CALIBRATIO	_				
LAB NAME Z	Padian C	Orp.		CASE					
		•			∞. <u>80</u>		3		
A. DATE _ 4-	33-86				44				
Compound	Initi	al Calib	.1	Cont	12012	Calibr	acion ²		
Metals:	True Value	Found	<u>IR</u>	True Value	Found	32	Found	32	Method 4
l. Aluminus		<u> </u>	1						
2. Antimony	<u>, </u>	<u></u>				<u> </u>		<u> </u>	
3. Arsenic								1	
4. Barium	1.0	1.04	104	1.0	1.06	100		1 1	1 P
5. Berylliu	128	<u> </u>	11					1	1
6. Cadmium	1.0	404	1104	1.0	1.04	1/041		1 1	1 P
7. Calcium		1	1					1 1	1
8. Chromius	1.0	11,05	105	1.0	1.05	105			1 P
9. Cobalt			1						1
10. Copper									1
11. Iron		1							
12. Lead									
13. Magnesiu									
14. Manganes									İ
15. Mercury									1
16. Nickel								İ	1
17. Potassiu	100								1
18. Selenium									1
19. Silver	1.0	10.774	77	1.0	0.771	77			P
20. Sodium									i
21. Thallius									
22. Tin									
23. Vanadius									
24. Zisc									
Other:									
								1 1	1
Constan								1	

² Continuing Calibration Source 1 Initial Calibration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

LAB NAME ROSION COLD		CASE NO. 8/1/3/1/3
A.DATE 4-38-86		UNITS Walmi
	Marris	

TO THE PROPERTY OF THE CANADA CONTROL OF THE CONTRO

	Initial	Conti	nuing Ca	libraci	on		
Preparation	Calibration	Preparation 3lank					
Compound	Blank Value 1 2		3	4	1 2		
Metals:						i	
l. Aluminum							
2. Ancimony							
3. Arsenic							
4. Barium	*0.001	1x0.003			<u> </u>	11+0.0021	
5. Beryllium					<u> </u>		
6. <u>Cadmium</u>	(0.002	10,002				11(0.002)	
7. Calcium							
8. Chromium	×0.008	120.011				10.042	
9. Cobalt							
10. Copper							
ll. Iron							
12. Lead)		
13. Magnesium							
14. Manganese							
15. Mercury							
l6. Nickel							
17. Potassium							
18. Selenium							
19. Silver	0.012	10.013				140.002	
20. Sodium							
21. Thallium		11					
22. <u>Tin</u>]		
23. Vanadium							
24. Zine					<u> </u>		
Other:						!!	
·		<u> </u>			1	11	
Cyanide	}	11 1			1		

X-LOXX IN

Form V

ab name <u>/</u> ate <u>4-</u> 2	Rodian Corp 3-86		Lab Sa	mple ID No.	00101 -03
		Matrix		119 me	-
compound	Control Limit	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	 %R!
etals:					
. Alumisu	= 75-125			<u>!</u>	
. Antimon	7		<u> </u>	1	1
. Arsenic	•		1	1	!
. Barium	•	1.9	0.063	2.0	192
. Berylli	<u>•</u>				
. Cadmium	•	0.03	<0.002	0.05	160
. Calcium	•			L	L
. Chromiu	-	0.14	<0.005	0.2	170
. Cobalt	•			<u></u>	
O. Copper	•			<u></u>	1
l. Iron	•			<u></u>	1
2. Lead	•				1
3. Magnesi	<u> </u>				!
4. Mangane	54				
5. Mercury	-				!
6. Nickel	•				!
7. Potassi	um *			<u></u>	1
8. <u>Seleniu</u>	m •				
9. Silver	-	0.21	*0.002	0.35	<u> 84</u>
0. Sodium			<u> </u>	<u> </u>	1
1. Thallium	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u>Tia</u>	<u> </u>	<u> </u>		<u> </u>	
3. Vanadiu	•		<u> </u>	<u> </u>	<u> </u>
4. Zinc		ļ	<u> </u>	<u> </u>	1
ther:			<u> </u>	•	
		<u> </u>			1
yanide	•				

Form V

Q. C. Report No.

SPIKE	CAMB			7 C O U
SPIKE	SAME	LL K	EUUN	LXY

ATE 4-23-8	36		Lab Sar Units	aple ID No UA/ML	104
		Hatrix		Majerik	
capound	Control Limit	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	 %3
ecals:					
. Aluminum	75-125				
. Ancimony	•				
. Arsenic	•				
. Barium	•	1.01	0.043	1.0	19.
. Beryllium	•				1
. Cadmium	•	0.89	<0.008	1.0	180
. Calcium	<u> </u>				1
Chromium	•	0.89	<0.005	1.0	180
. Cobalt	•		1	<u> </u>	
O. Copper	•			[1
l. Iron	-				1
2. Lead	•				1
3. Magnesium				[l
4. Manganese	•				1
5. Mercury	•	1			1
6. Nickel	-				1
7. Potassium	•			1	
3. Selenium					1
9. Silver	•	0.70	*0.004	1.0	170
0. Sodium	•				
l. Thallium	•				İ
2. Tin	-				1
3. Vanadium	•				
4. Ziac	•				1
ther:				•	1
	1		1	1	1
yanide	49			l	Ī

RECENT TO SOLVE THE RECENT OF THE SECOND TO SOLVE THE SECOND TO SOLVE THE SECOND TO SOLVE THE SECOND THE SECON

Form VI

G.	С.	Report	No.
4.	٠.		

DUPLICATES

LAB 53	ME $\overline{\mathcal{R}}$	adian	Corp.
A.DATE			,

	Matr	Lx		
Compaune	Control Limiti	Sample(S)	Dublicate(D)	P.P.C
ietals:				
. Aluminum		<u> </u>		i
2. Antimony	 			!
Arsenic	 			!
Barium		0.066	0.068	3.0
. Servilium		<u> </u>		1
. Cadmium !		(0,002)	<0.002	NC
. <u>Caltius '</u>				1
. Chromium		<0.005	<0.005	NC
). <u>Cosalt </u>		1		!
.U. Copper				!
1. Iron		!		1
2. Lead		1		1
13. Magnesium				i
4. Manzanese				
5. Mercury				ļ
6. Nickel		1		
7. Potassium		1		1
8. Selenium				
9. Silver		0.011	¥0.005	1 75
O. Sodium				 -
11. Thallium				
22. Tin				
23. Vanadium				
24. Zinc				
otner:				
				
Cyanide !				!

L5X'S IDL

 2 RPD = [(S - D ((S + D) 2)] x 100

1. RPD should not be considered since there are values 20xx the IOC. present in the oriculations.

B - 12

6 043

Non calculable RPD due to value(s) less than CRDL

	Pla	Plant 4	811-87 78		24 move)	7	1-64/m	m. (ais)	01.06/14	ا (۱//۶)	UNITS	1631	1001	
ELEMENT	ANALYSIS DATE	90			DUP	LICATE	DUPLICATE ANALYSIS	S		SPIKE	KE REC	RECOVERY		BLANKS
		FOUND VALUE	TRUE VALUE	&R	SAMP!	SAMP	DUPL	RPD	SAMP#	SR	SSR	SA	8R	
	13 112 0	03%	747	8	un dup 113 616	<,013	6177	7/6	510 E11	ζ».>	HE)	427	27/	17:00
223		(3)	777	93	dup aug	80012	<,CC2	کلان	419 28		5/17	057'	100	677'> m;rc
		.637	3/73'	93		1 1								3d 6n
		860'	77.7	95										(i.e. di
1/2	38 45-86													
		8/7001	0500	96					112.46	Kaco	7837	78.37	777	119 00
		3431'	3433'	100										
<i>P</i>	2 21.86												<u> </u>	1434
	C31. =/p;	E #3'	643	93	dy dup 113 110	2777	C1375	JN	29	(2);	6/7	727	90	641 64 -1112
6		877	8/73')))						6335-	.613	400	20	021 bl
04		870	8/:11	02/					5	(1) (1) (1) (1) (1) (1) (1) (1)	1.26	121	837	
4	38 18.8													
	6)0,=10,	-//+21	7777	831	Augraup 113 116	277.	<11.12	77	11364	5112 5112		7/ 7'	,	11.63
٠ د ت		677	147'	11.8					an 20 113 646		613	147	36	0.400° 1.000
مرد بود		1+77)/+3"	113					113 646 KUD	C110	16.31	1127	(-	17.70
(1. 4. 1/1.)	3.14.86	191	27.6	96										
vo. No. in	7:10:													
A Tank														
d an di	an dup=analytical dupl	duplicate an sp=	sp=analytical sp	spike	dig dup	=pre-di	dig dup=pre-digest duplicate	plicate	dig sp=pre-digest spike	re-dig	lest sp	ike		

Volatile Organics	DETECTION LIMITS	Sample #:86021
METHOD 601		METHOD DETECTION
		LIMIT
COMPOUND ug/l	-01-04	
Chloromethane	0.08	
Bromomethane	1.18	
Vinyl Chloride	0.18	
Chloroethane	0.52	
Setaylene Chloride	0.25	
Triculorofluoromethane	0.10	
,1-Dichloroethene	0.13	
1.1-Dichloroethane	0.07	
Trans-1,2-Dichloroethene	0.01	
Chloroform -	0.05	
1,2-Dichloroethane	0.03	
l,l,l-Trichloroetnane	0.03	
Carbon Tetrachloride	0.12	
Bromodichloromethane	0.10	
1,2-Dichloropropane	0.04	
Trichloroethene	0.12	
Dibromochloromethane	0.09	
2-Chloroethylvinyl Ether	0.13	
Bremoform	0.80	
Tetrachloroethene	0.03	
Chlorobenzene	0,25	
,3-Dichlorobenzene	0.32	
,2-Dichlorobenzene	0.15	
1,4-Dichloropenzene	0.24	

DETECTION LIMITS

Sando Beeren de Contra de Contra de Contra de Contra de Contra de Contra de Contra de Contra de Contra de Cont Se

VOLATILE ORGANICS

METHOD 603

		i		Samelet #: 8000013
COMPOUND		,	DETECTION LIMIT	19/8
	HO10-	-05		
BENZENE	0,3			
TOLUENE	0.3			
ETHYLBENZENE	0,3			
CHLOROBENZENE	0.3			
1,4-DICHLOROBENZENE	0.3			
1,3-DICHLOROBENZENE	0.4			
1,2-DICHLOROBENZENE	4.0			
P-XYLENE	·	6.0		
M-XYCENE		60		
O-XYLENE		6.0		

RADIAN

SPIKE RECOVERY

EPA METHOD 601 Volatile Organics	26 02 PU	113 - 1 113 - 1 1647			2/20/12			
volatile organics	8	6011	J		Bhan			1
COMPOUNDS	SSR	SR	SA	7R	SSR	SR	SA	ZR
Chloromethane								
Bromomethane						ŀ	1	
Vinyl chloride								
Chloroethane								
Methylene chloride	9.3		9.2	101				
Trichlorofluoromethane			<u> </u>				- 1	
l,1-Dichloroethene	7.0		10.0	70				
1,1-Dichloroethane								
trans-1,2-Dichloroethene	5.1		5.4	95				
Chloroform	64.1		43.0	149				
1,2-Dichloroethane	237		27.6	86				
l,l,l-Trichloroethane	14.8		14.3	103				
Carbon Tetrachloride	20.7		200			ĺ		
Bromodichloroemethane	9,1		79	115				
1,2-Dichloropropane	8.2		8.0	102		Ī		
Trichloroethene	23.6		23.2	106				
Dibromochloromethane	13.9		16.7	83				
l,l,2-Trichloroethane				<u> </u>		1		
cis-1,2-Dichloropropene						i		
2-Chlorethylvinyl ether								
Bromoform	11.3		9,9	114				
1,1,2,2-Tetrachloreothan			190			1		
Tetrachlorethylene			6.2			ĺ		
Chlorobenzene	8.5			106				
1,3-Dichlorobenzene				- 		1		
1,2-Dichlorobenzene						<u> </u>		
1,4-Dichlorobenzene								
		-			1	ز ای افغان کا روز بر اوران		, , , , , , , , , , , , , , , , , , , ,

SSR = Spiked Sample Result

SR = Sample Result

SA = Spike Added

6 047

DUPLICATE ANALYSIS

EPA METHOD 602			
VOLATILE ORGANICS			
sample # <u>8603118-02</u> E 860170	+ <u></u> +		
COMPOUND UGIL	RUN#1	RUN#2	RPD
Benzene			
Toluene	15.8	MO	NC
Ethyl benzene			
1,4-Dichlorobenzene			
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
0-Xylene			
M-Xylene			
P-Xylene			
Chlorobenzene	,		

· Did confirm on And column

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$

* Shere was a top layer in the was precent in the first water run but not in the second

RPD= Relative Percent Difference



LAB #: 8602113-01C
SAMPLE ID: 860169
DATE: 2-19-86
INSTRUMENT: 4
(01/0010
601/8010
BROMOCHLOROMETHANE: 106%
2-BROMO-1-CHLOROPROPANE: 104%
602/8020
a.a.a-TRIFLUOROTOLUENE:



LAB #: 8602113-02C
SAMPLE ID: 860170
DATE: 2-19-86
INSTRUMENT: 4
601/8010
BROMOCHLOROMETHANE: 101%
2-BROMO-1-CHLOROPROPANE: 104%
602/8020
a.a.a-TRIFLUOROTOLUENE:



LAB #: 8602113-03C
SAMPLE ID: 860171
PATE: 2-20-86
INSTRUMENT: 4
601/8010
BROMOCHLOROMETHANE: 94%
2-BROMO-1-CHLOROPROPANE: 83%
602/802 0
a,a,a-TRIFLUOROTOLUENE:



LAB #: 8603113-040
SAMPLE ID: 800172
DATE: 2-21-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 119%
2-BROMO-1-CHLOROPROPANE: 10696
602/802 0
a,a,a-TRIFLUOROTOLUENE:



LAB #: 8602113-01E
SAMPLE ID: 860169
DATE: 2-20-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE:



LAB #: 8603113-03E
SAMPLE ID: 860190
DATE: 2-21-86
INSTRUMENT:
(0) (0)
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: 106%, 107%



LAB #: 8003113-03E
SAMPLE ID: <u>860171</u>
DATE: 2-21-86
INSTRUMENT:
601/8010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: 10/%

RADIAN

LAB #: 8602113-04E
SAMPLE ID: 860172
DATE: <u> </u>
INSTRUMENT: O
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: 10290



PROTECTION OF THE PROPERTY OF

LAB #: 8602/13-05B
SAMPLE ID: 800/73
DATE: 2-21-86
INSTRUMENT: D
601/0010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE:_//)3%

LAB # SYSTE BU	• •/		
CLIENT NAME			
SAMPLE ID	 -		
EPA METHOD	DATE: 2/2/61		
601	ANALYST: JSC.	EPA METHOD 602	DATE:
001	INSTRUMENT:		ANALYST:
	INSTRUMENT:		INSTRUMENT:
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)		(ug/L)
	(-8, -/		
Chloromethane		Benzene	
Bromomethane	//	Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xvlene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloropropen	e	601	
Trichloroethene		Browochloromethan	e
Dibromochloromethane	<u>-</u>	2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		l,4-Dichlorobutan	e
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluorot	oluene
Bromoform			
1.1.2.2-Tetrachlorethane			
Tetrachlorethylene			
Chlorobenzene			
1.3-Dichlorobenzene		1	
1.2-Dichlorobenzene	······································	<u> </u>	
1.4-Dichlorobenzene			
	_	1	
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LAB # THESHT	Bunk			
CLIENT NAME				
SAMPLE ID				
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EPA METHOD	DATE: Z/20		EPA METHOD	DATE:
601	ANALYST: (602	ANALYST:
	ANALYST: (T: 1	lowin	INSTRUMENT:
COMPOUND	CONCENTRA		COMPOUND	CONCENTRATION
	(ug/L)	1101	COMPOUND	(ug/L)
Chloromethane		10	Benzene	
Bromomethane		T	Toluene	
Vinvl Chloride	·	1	Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene	T		1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene			M-Xvlene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane	!			
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene			Browochloromethane	
Dibromochloromethane	——— —		2-Bromo-1-Chloropr	
1.1.2-Trichlorethane			l,4-Dichlorobutane	·
cis-1.3-Dichloropropene			602	_
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	luene
Bromoform			-	
1.1.2.2-Tetrachlorethane			,	
Tetrachlorethylene			+	
Chlorobenzene			1	
1.3-Dichlorobenzene			-	
1.2-Dichlorobenzene			-	
1.4-Dichlorobenzene				
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LAB #SYM	- DWIL			
CLIENT NAME				
SAMPLE ID				
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EPA METHOD	DATE: 2		EPA METHOD	DATE:
601	ANALYS'	1: 754	602	ANALYST:
	INSTRUM	ient: Lu	men -	INSTRUMENT:
COMPOUND	CONCENT	TRATION	COMPOUND	CONCENTRATION
	(ug/	(L)	-	(ug/L)
Chloromethane	٨	12	Benzene	
Bromomethane		1	Toluene	
Vinvl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xvlene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride			,	
Bromodichlormethane				
1.2-Dichloropropage			SURROGATE RECOVER	IES:
Trans-1.3-Dichloroproper	ne		601	
Trichloroethene			Bromochloromethane	e
Dibromochloromethane			2-Bromo-1-Chloropi	ropane
1.1.2-Trichlorethane			1,4-Dichlorobutane	•
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	oluene
Bromoform			1	
1.1.2.2-Tetrachlorethans				
<u>Tetrachlorethylene</u>	 		1	
Chlorobenzene		<u> </u>		
1.3-Dichlorobenzene		<u> </u>		
1.2-Dichlorobenzene			_	
1.4-Dichlorobenzene	·	¥		
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LAB # 1 CABENT	Blank			
CLIENT NAME				
SAMPLE ID				
***************				***********
EPA METHOD 601	DATE: 7 ANALYS INSTRU		EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCEN (ug	TRATION /L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	- لى		Benzene	
Bromomethane	_/_		Toluene	
Vinvl Chloride			Ethyl benzene	
Chlcroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane		ļ		
1.1.1-Trichlorethane			1	
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVER	ES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene			Browochloromethane	
Dibromochloromethane			2-Bromo-1-Chloropr	
1.1.2-Trichlorethane			1,4-Dichlorobutane	·
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	luene
Bromoform				
1.1.2.2-Tetrachlorethane				
Tetrachlorethylene			-	
Chlorobenzene			4	
1.3-Dichlorobenzene	\/		4	
1.2-Dichlorobenzene			-	
1.4-Dichlorobenzene			•	
		_		

LAB # SYSTAL	BUNK		
CLIENT NAME			
SAMPLE ID			
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EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2/21/31 ANALYST: 556 INSTRUMENT: QQ
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	NO
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe	ne	M-Xylene	
Chloroform		O-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroprop	епе	601	
Trichloroethene		Browochloromethane	
Dibromochloromethane		2-Brome-1-Chloropr	
1.1.2-Trichlorethane		l,4-Dichlorobutane	
cis-1.3-Dichloropropen		602	
2-Chloroethylvinyl eth	er	a,a,a,-Trifluoroto	luene
Bromoform			
1.1.2.2-Tetrachloretha			
<u>Tetrachlorethylene</u>			
Chlorobenzene			
1.3-Dichlorobenzene			
1.2-Dichlorobenzene		1	
1.4-Dichlorobenzene			
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of.			

LAB #	ZENT BUNK			
CLIENT NAME				
SAMPLE ID				
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EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2(2)/3(ANALYST: C) INSTRUMENT (O)	
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)	
Chloromethane		Benzene	$\mathcal{N}_{\mathcal{D}}$	
Bromomethane		Toluene		
Vinyl Chloride		Ethyl benzene		
Chloroethane		Chlorobenzene		
Methylene chloride		1.4-Dichlorobenzene		
Trichlorofluromethane		1.3-Dichlorobenzene		
1.1-Dichlorethene		1.2-Dichlorobenzene		
1.1-Dichlorethane	· 	P-Xylene		
Trans-1.2-Dichloroethe		M-Xylene		
Chloroform		0-Xylene	<u> </u>	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride		1		
Bromodichlormethane				
1.2-Dichloropropane		SURROGATE RECOVERIES:		
Trans-1.3-Dichloropror	ene	601		
Trichloroethene		Browochloromethane		
Dibromochloromethane		2-Bromo-1-Chloropropane		
1.1.2-Trichlorethane		l,4-Dichlorobutan	e	
cis-1.3-Dichloroproper	<u>. </u>	602		
2-Chloroethylvinyl eth	ner	a,a,a,-Trifluorot	oluene	
Bromoform		4		
1.1.2.2-Tetrachloretha		1		
<u>Tetrachlorethylene</u>		1		
Chlorobenzene		4		
1.3-Dichlorobenzene		4		
1.2-Dichlorobenzene		<u> </u>		
1.4-Dichlorobenzene		<u>.</u>		
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LAB #Sy	STON BUNIL		
CLIENT NAME			
SAMPLE ID			
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EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2/2/86 ANALYST: CO INSTRUMENT: OL
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		<u>Benzene</u>	\mathcal{N}
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethen	2	M-Xylene	
Chloroform		0-Xylene	$\overline{}$
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERIES:	
Trans-1.3-Dichloropropene		601	
Trichloroethene		Browochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropropane	
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	luene
Bromoform		1	
1.1.2.2-Tetrachlorethan		+	}
Tetrachlorethylene		-	!
Chlorobenzene	·		
1.3-Dichlorobenzene	 	į	ŀ
1.2-Dichlorobenzene	·	! =:	
1.4-Dichlorobenzene		<u> </u>	
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LAB # (PARENT	BLANK		
CLIENT NAME			
SAMPLE ID			
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EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2 / - 2/66 ANALYST: E INSTRUMENT D
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	NA
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	V
Chloroform		0-Xylene	
1.2-Dichlorethane			ľ
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERIES: 601	
Trans-1.3-Dichloropropene			
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropropane	
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluorotoluene	
Bromoform		+	
1.1.2.2-Tetrachlorethane		-{	
Tetrachlorethylene			
Chlorobenzene			
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			
1.4-Dichlorobenzene		-	
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LAB # 3/5/91 B	UNIC		
CLIENT NAME			
SAMPLE ID			
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EPA METHOD 601	DATE: 2/5/76 ANALYST: ISS INSTRUMENT JU	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	No	Benzene	
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
l.l-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		O-Xylene	
1.2-Dichlorethane		1	
1.1.1-Trichlorethane		1	
Carbon tetrachloride		1	
Bromodichlormethane		1	
1.2-Dichloropropane		SURROGATE RECOVERIES: 601	
Trans-1.3-Dichloropropene			
Trichloroethene		Browochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropropane	
1.1.2-Trichlorethane		l,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluorotoluene	
Bromoform		4	
1.1.2.2-Tetrachlorethan	e	4	
Tetrachlorethylene		4	
Chlorobenzene		4	
1.3-Dichlorobenzene			
1.2-Dichlorobenzene		4	
1.4-Dichlorobenzene	<i>V</i>	_ .	
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LAB # ACTECN	7 BUNK		
CLIENT NAME			
SAMPLE ID			
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EPA METHOD	DATE: 2/19/16	EPA METHOD	DATE:
601	ANALYST: 🤣	602	ANALYST:
	INSTRUMENT :	ein.	INSTRUMENT:
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)		(ug/L)
Chloromethane	Na	P	
Bromomethane		Benzene Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene	 	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane		7	
Carbon tetrachloride			
Bromodichlormethane		7	
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloroproper	ie .	601	
Trichloroethene		Browochloromethan	e
Dibromochloromethane		2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		1,4-Dichlorobutan	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluorot	oluene
Bromoform			
1,1,2,2-Tetrachlorethane			
Tetrachlorethylene		_	
Chlorobenzene			
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			
1.4-Dichlorobenzene		_	
		7	

DAILY QUALITY CONTROL

EPA DE WP 483 cmc 2 + EPA DE WP 781 cmc 3

ANALYZED CENTIFIED 31E VALUE VALUE (MJL) Chloromethane Bromomethane Vinyl chloride Chloroethane 93 Methylene chloride 8.6 9.2 Trichlorofluoromethane 8.2 1.1-Dichloroethene 10.0 82 1,1-Dichloroethane trans-1,2-Dichloroethene 5.4 126 54.2 Chloroform 43.0 34 23.2 1,2-Dichloroethane 27.6 14.3 19.2 1,1,1-Trichloroethane 92 200 18.3 Carbon tetrachloride 2,9 7.9 Bromodichloromethane 112 8.0 1,2-Dichloropropane 166 22.6 Trichloroethene 22.2 102 14,5 16.7 27 Dibromochloromethane. 1,1,2-Trichloroethane cis-1,3-Dichloropropene 2-Chloroethylvinyl ether 5.5 8.4 Bromoform 10.0 1.1.2.2-Tetrachloroethane Tetrachloroethylene 6.2 92 8.2 Chlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene

DAILY QUALITY CONTROL RAS GC LAB

DATE:	2/11/6		SPIKED VALUE (ug/L)	ANA	LYZED V. (ug/L)	ALUE		% RECOVER	Y
		INSTRUMENT		D			٥		
	· •	ANALYST		4			4		
TEST METHOD	COMPOUN	īD							
EPA 601	Chloromethane		16.2						
	Chloroethane		28.1						
	Methylene Chlorid	le	26.3						
	1,1-Dichloroethyl	.ene	45.0					ļ	
	Trans-1,2-Dichlor	oethylene	12.5						
	Carbon Tetrachlor	ide	60.0	·.					
	Dichlorobromometh	ane	40.0			ļ <u>.</u>			
	1,1,2-Trichloroet	hane	33.8						
EPA 602	Benzene		30.7	38.1			124		
	- Toluene		4.1	3.9			95		
	Ethylbenzene		11.5	11.5			100		
	P-Xylene		19.1	21.4			112		
	M-Xylene		42.6	57.9			177		
	O-Xylene		10.6	9,0			85		
EPA 608			(ug/g)		(ug/g)				
;	Aroclor 1242		58.7						
	Aroclor 1260		56.8						

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DAILY QUALITY CONTROL RAS GC LAB

BOOM CONTRACTOR RECEDENCE PROBLEM SERVES BUILDING OF THE

DATE:	5/20/56		SPIKED VALUE (ug/L)	VALUE ANALYZED VALUE			% RECOVERY		
}		INSTRUMENT		D			D		
		ANALYST		4			9		
TEST METHOD	COMPOUN	TD							
EPA 601	3								
	Chloromethane	:	16.2				<u> </u>		
į	Chloroethane		28.1						
	Methylene Chloric	le	26.3						
	1,1-Dichloroethyl	ene	45.0						
	Trans-1,2-Dichlor	coethylene	12.5						
	Carbon Tetrachlor	ide	60.0				ļ		
	Dichlorobromometh	nane	40.0						
	1,1,2-Trichloroet	hane	33.8						
EPA 602	Benzene		30.7	37, L			132		
	Toluene		4.1	3.3			44		
	Ethylbenzene		11.5	11, 3			93		
	P-Xylene		19.1	20,6	<u> </u>		147		
	M-Xylene		42.6	20.18			114		
	O-Xylene		10.6	3.7			32		
EPA 608			(ug/g)		(ug/g)				,
	Aroclor 1242		58.7						
	Aroclor 1260	 	56.8						

DAILY BUALITY CONTROL

EPA DC WP 483 cmc 2 + 4PA DC WP 731 cmc ?

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3/18/37		6	, 6
	CENTIFIED VALUE (MS/L)	ANALYZED	2 nec
Chloromethane			
Bromomethane			
Vinyl chloride			
Chloroethane			
Methylene chloride	۶.2	10.2	11(1
Trichlorofluoromethane			
1,1-Dichloroethene	10.0	7.8	73
1,1-Dichloroethane			
trans-1.2-Dichloroethene	5.4		
Chloroform	43.0	62.6	145
1,2-Dichloroethane	27.6	23.5	85
1,1,1-Trichloroethane	14.3	13.8	96
Carbon tetrachloride	200	17.4	87
Bromodichloromerhane	7.9	8.5	108
1,2-Dichloropropane	8.0	8.4	105
Trichloroethene	22.2	22.5	101 -
Dibromochloromethane	16.7	15.0	90
1,1,2-Trichloroethane			
cis-1,3-Dichloropropene			
2-Chloroethvlvinvl ether		9.7	98
Bromoform	9.9	<u> </u>	13
1.1.2.2-Tetrachloroethane Tetrachloroethylene	6.2		
Chlorobenzene	8.7	8.5	104
	3.6		
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
1,4-Dichlorobenzene			

DAILY QUALITY CONTROL

EPA DE WP 483 cmc 2 + 6PA DE WP 781 cmc 3

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2/20/86		G	G
	CENTIFIED VALUE (MJ/L)	ANDLYZED WILLE	Q rec
Chloromethane			
Bromomethane			
Vinyl chloride			
Chloroethane			
Methylene chloride	9.2	800x 100	Foo 109
Trichlorofluoromethane			
l,l-Dichloroethene	10.0	7.8	78
1,1-Dichloroethane			
trans-1,2-Dichloroethene	5.4		
Chloroform	43.0	60.0	140
1,2-Dichloroethane	27.6	24. 3	28
1,1,1-Trichloroethane	14.3	[4.8	103
Carbon tetrachloride	200	13,0	90
Bromodichloromethane	7.9	9.6	191
1,2-Dichloropropane	8.0	3,6	<u>ان؟</u>
Trichloroethene	22.2	23,7	107 -
Dibromochloromethane	16.7	16.2	9.7
1,1,2-Trichloroethane			
cis-1,3-Dichloropropene			
2-Chloroethylvinyl ether	4.9	11.0	(()
Bromoform	10.0		1,,,
1.1.2.2-Tetrachloroethane Tetrachloroethylene	6.7		
Chlorobenzene	8.2	3.4	179
1,3-Dichlorobenzene	·		
1,2-Dichlorobenzene			
l,4-Dichlorobenzene			
· ·			

RADIAN CORPORATION SACRAMENTO

E(125 860/69, 800/70, 860/71, 820/72 CK

CHAIN OF CUSTODY RECORD

	Fiel	id Sample No
Company Sampled / Address <i>General</i>	el Depramies, FT. Worth,	Plant 4
Sample Point Description STUNT	a water	
Stream Characteristics:		
•	Flow	•
/isual Observations/Comments		
Collector's Name M. Johnson	Date/Time Sampled	2-18-82
Amount of Sample Collected <u>F161f</u>	Tamber gluss	
Store at: Ambient 5°C -	10°C Ø Other <u>4°</u> C	
Ha		-
Caution - No more sample available	☐ Return unused portion of sample ☐	Discard unused portions
Other Instructions · Special Handling ·	Hazards	
Hazardous sample (see below)	☐ Non-hazardous	s sample
7 Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
□ Pyrophoric	☐ Lachrymator	□ Shock sensitive
□ Acidic	☐ Biological	Carcinogenic - suspect
□ Caustic	☐ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain of Possessio	n:	
Organization Name Ruchum Ca	Date Received Lab Sample No \$\(\sum_{\cup} \)	
Received By	Date Received	Time
Transported By Waruld Hohers	Lab Sample No. 80	03 - 1/
Comments		
nclusive Dates of Possession 2-	18-86	
Organization Name RAS-	sae	
Organization Name 1045 - Received By Cauda &	L	19/86 Time 10:00
	Date Hoog To	77/36 Time
ransported By + X X X Comments - N C air hell	Lab Sample No. <u>4002116</u>	
nclusive Dates of Possession		
Organization Name		
Received By		Time
	Lab Sample No	
Comments		
nclusive Dates of Possession		

EPA 601: 860175, 800176, 800178, 860179, 860180

EPA1310 860179

AUSTIN OIL GREAT. METAS: 81	820177,820174,860150 CHAIN OF CUSTODY RECORD SE: 820171,820180 U125,820174,860178,860174,Fi	eld Sample No			
Company Sampled Address General Sample Point Description Connection	lappeonics - Ft. With,	Plant 4			
Stream Characteristics:					
Temperature	Flow	pH			
Visual Observations/Comments	· 				
Collector's Name E. Snyder	Date/Time Sampled	2-19-86			
Amount of Sample Collected 22 VVAS Sample Description Downstorn	S, FIVE MUSON JULS, SIV 500ml pu	eusti.			
Sample Description Mundur	In the second				
Store at: □ Ambient □ 5°C □ -	10°C	<u> </u>			
Caution - No more sample available Other Instructions - Special Handling -	☐ Return unused portion of sample ☐				
Hazardous sample (see below)	□ Non-hazardo	us sample			
 ▼Toxic	☐ Skin irritant	☐ Fiammable (FP< 40°C)			
☐ Pyrophoric	☐ Lachrymator	□ Shock sensitive			
□ Acidic	☐ Biological	Carcinogenic - suspect			
□ Caustic	☐ Peroxide				
□ Other					
Sample Allocation/Chain of Possessig					
Organization Name Radan Co	rp.				
Received By	Date Received	Time			
Transported By F. Snycker		62-130			
Comments					
Inclusive Dates of Possession $\frac{2-19}{2}$	-87				
Organization Name					
Received By AU TUM ANG	Λ Date Received $\overline{\mathcal{A}}$	-3C-4c Time ICCE			
Transported By	Lab Sample No. 3002	130			
Comments	J .				
Inclusive Dates of Possession					
Organization Name					
Received By		Time			
Transported By					
Comments					

Form III Q. C. Report No. BLANKS

LAB NAME	adian	-	CASE NO. PLANT 4						
DATE	3-31-86	_			τ	NITS	ug/ml		
			Matr	<u> </u>	tin		V		
	Initial		onei:	nuing C	alibraci	on			
Preparation	Calibration			Blank '	Value		Preparac	ion Blank	
Compound	Blank Value	1		2	3	4	1	2	
Metals:		11			(- .	
1. Aluminum		<u> </u>				-			
2. Ancimony									
3. Arsenic									
4. Barium							10.004		
5. Beryllium									
6. Cadmium							11<.002		
7. Calcium									
8. Chromium							1.005		
9. Cobalt									
10. Capper								İ	
11. Iron									
12. Lead									
13. Magnesium									
14. Manganese								ĺ	
15. Mercury							!!	<u> </u>	
16. Nickel									
17. Potassium	1								
18. Selenium									
19. Silver							116.002	<u> </u>	
20. Sodium					1		11	<u> </u>	
21. Thallium		11			<u> </u>	<u> </u>		<u> </u>	
22. <u>Tia</u>			!		<u> </u>		<u> </u>	ļ	
23. Vanadium		11							
24. Ziac		11						1	
Other:					1		11		
					1	1			
Canida]	11	Ī		1	1	1.1	1	

* indicates value is less than 5 4 idl

3 - 9 6 075

For work orders:

ICP QC DATA-PLANT 4

86-02-100 86-02-120 86-02-139 86-02-159

Form II - pg /

Q. C. Report No. ____4

INITIAL AND CONTINUING CALIBRATION VERIFICATION³

14. Manganese 15. Mercury 16. Nickel 17. Potassium 19. Silver 1,00 19. 99 20. Sodium 21. Thallium	LAB	LAB NAME RACIAN			CASE NO. PLANT 4							
Compound Initial Calib. Continuing Calibration						SOW 1	10					
Netals: True Value Found TR True Value Found TR Found TR Method	DAI	<u> 3-3</u>	1-86		UNITS							
Hetals: True Value Found TR True Value Found TR Found TR Method	Con	pound	Inicia	l Calib								
2. Antimony	Met	als:	True Value	Found	<u> </u>	True Value	Found	===	Found	<u> </u>	Method 4	
3. Arsenic 4. Barium	1.	Aluminum									<u> </u>	
4. Barium	2.	Antimony										
5. Beryllium 6. Cadmium	3.	Arsenic				<u> </u>		<u> </u>	<u> </u>			
6. Cadmium	4.	Barium	1.00	0.99	99	1.00	0.99	199	0.98	981	I P	
7. Calcium 8. Chromium	5.	Beryllium						<u> </u>	1	<u> </u>		
8. Chromium	6.	Cadmium	1.00	0.98	98	1.00	1.01	101	1.00	100	1 p	
9. Cobalt 10. Copper 11. Iron 12. Lead 13. Magnesium 14. Manganese 15. Mercury 16. Nickel 17. Fotassium 19. Silver	7.	Calcium						1			<u> </u>	
10. Copper	8.	Chromium	1.00	0.98	98	1.00	1.01	101	0.99	1991	1 p	
11. Iron 12. Lead 13. Magnesium 14. Manganese 15. Mercury 16. Nickel 17. Potassium 19. Silver	9.	Cobalt	<u> </u>					<u> </u>	<u> </u>			
12. Lead 13. Magnesium 14. Manganese 15. Mercury 16. Nickel 17. Potassium 18. Selenium 19. Silver	10.	Copper		<u> </u>					<u> </u>		1	
13. Magnesium 14. Manganese 15. Mercury 16. Nickel 17. Potassium 18. Selenium 19. Silver	11.	Iron	<u> </u>								1	
14. Hanganese 15. Mercury 16. Nickel 17. Potassium 18. Selenium 19. Silver	12.	Lead	1			1			1		1	
15. Mercury 16. Nickel 17. Potassium 18. Selenium 19. Silver	13.	Magnesium									<u> </u>	
16. Nickel 17. Potassium 18. Selenium 19. Silver	14.	Manganese						<u> </u>	1		į	
17. Potassium 18. Selenium 19. Silver	15.	Mercury										
18. Selenium 19. Silver	16.	Nickel							1			
19. Silver	17.	Potassium								[_ [
20. Sodium 21. Thallium 22. Tin 23. Vanadium 24. Zinc Other:	18.	Selenium										
21. Thallium 22. Tin 23. Vanadium 24. Zinc Other:	19.	Silver	1.00	0.99	199	1.00	0.99	199	2.99	1991	P	
22. Tin 23. Vanadium 24. Zinc Other:	20.	Sodium										
23. Vanadium 24. Zinc Other:	21.	Thallium							1	1		
24. Zinc	22.	Tin										
Ocher:	23.	Vanadium										
	24.	Zinc										
	Othe	r:									1	
Cyanide												
	Cyan	ide										

¹ Initial Calibration Source 2 Continuing Galub. xeans Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 50-110

⁴ Indicate Analytical Method Usad: P - ICP/Flamm AA; F - Turnace

for work orders 86-02-100 86-02-120 86-02-139 86-02-159

Form II pg 2

Q. C. Report No. 4

INITIAL AND CONTINUING CALIBRATION VERIFICATION3

LAB	NAME	adien	·			NOZ	lan	t 4		
	E		•	SOW NO. UNITS /ml Continuing Calibration ²						
Con	pound .	Initi	al Calib	• -						
Met	als:	True Value	Found	<u>=</u>	True Value	Found	<u> </u>	Found	<u>==</u>	Method 4
1.	Aluminum		<u> </u>	<u> </u>						!
2.	Antimony	<u> </u>	1							
3.	Arsenic									
4.	Barium		<u> </u>		1.00	0.99	199			P
5.	Beryllium				11				1	1
6.	Cadmium			1	11,00	1.03	103			1 P
7.	Calcium]	ļ
8.	Chromium				11,00	1.02	102			P
9.	Cobalt			Ī						
10.	Copper								İ	ı
11.	Iron									
12.	Lead								Ī	
13.	Magnesium								ļ i	
14.	Manganese									
	Mercury		-							1
	Nickel									1
	Potassium		ĺ				 			1
	Selenium		 							1
	Silver		1		1,00	0.99	99		İ	i P
	Sodium		 		1,00	0.77	1	 		
	Thallium						 -	<u>. </u>		
	Tin	<u> </u>							 	†
	Vanadium				11					
	Zinc		 	 			1		 	1
	r:		1				1	<u> </u>	1 1	
- CHE	• • • • • • • • • • • • • • • • • • • •					<u> </u>	!			1
Cyan	ide			-				•_ 		1

¹ Initial Calibration Source 2 Continuing Calibration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

For work orders 86-02-100 86-02-120 86-02-139 86-02-159

CASE NO. PLANT 4

11

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Form III

Q. C. Report No. 4

BLANKS

LAB NAME Radian

10. Copper
11. Iron
12. Lead

13. Magnesium 14. Manganese

15. Mercury 16. Nickel

17. Pocassium

18. Selenium19. Silver

20. Sodium

22. Tin_

24. Ziac

Other: ___

Cyanide

21. Thallium

23. Vanadium

DATE3 - 3	3-31-86			Macrix water							
Preparation	<u>Initial</u> Calibration	Continuing Calibration Blank Value					ation 3lank				
Compound	Blank Value	1 1	2	3	4	1 1	2				
detals:		1)	}			11	≓ .				
l. Aluminum		<u> </u>			-						
2. Ancimony		1		<u> </u>	1	11					
Arsenic				<u> </u>							
4. Barium	<.001	110.003	0.003	1.001	1	11					
. Beryllium					1	11					
6. Cadmium	2.002	12.002	002	<.002							
7. Calcium											
8. Chromium	< 005	12.005	0.006	2.005							
9. Cobalt							1				

11

11

11

<.002

110016 0014 2.002

^{*} indicates value is less than 5x cal

For work order 86-02-120 me-digist dup of 86-02-120-0/E

Form VI

Q.	с.	Report	No.	4
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DUPLICATES

	•	DUFLICALES		
LAB NAME Rad	can		CASE NO. Glone	4
DATE	1-86		EPA Sample No. Lab Sample ID No.	·86-02-120 016
			Units ug/ml	
		ix water		
Compound 1	Control Limit	Sample(S)	Dublicate(D)	RPD-
Metals:				
1. Aluzinum		1		
2. Antimony				
3. Arsenic		<u> </u>	 	<u> </u>
4. Barium		0.11	0.064-	53
5. Beryllium		1		
6. Cactium		<.002	<.002	NC
7. Calcium				
8. Chromium		0.010 *	0.013*	25
9. Cobalt		<u>i</u>	<u> </u>	1
10. Copper			<u> </u>	<u> </u>
ll. Iron		<u>i</u>	<u> </u>	1
12. <u>Lead</u>		1	<u> </u>	1
13. Magnesium		<u> </u>	<u> </u>	
14. Manganese		<u> </u>		<u> </u>
15. Mercury				<u> </u>
16. Nickel			<u> </u>	<u> </u>
17. Potassium		<u> </u>		1
18. Selenium				
19. Silver		1 <.002	0.005 *	1 NC
20. Sodium				
21. Thallium				
22. Tin				
23. Vanadium				
24. Zinc				
Other:				

Cvamide

⁺ Out of Control

To be added at a later date.

 $^{^{2}}$ RPD = [|S - D|/((S + D)/2)] x 100

^{1 -} Non calculable RPD due to value(s) less than CRDL

^{*} indicates value is less than 5xidl

analytical dup of 86-02-120-044

FORE VI

Q. C. Report No. 4

	•	DUPLICATES
LAB NAME Radian		
DATE 3-31-86		

CASE NO. Plant 4

EPA Sample No.
Lab Sample ID No.86-02-120-04E

Units ug/ml

Control Limit | Cozpound Sample(S) | Duplicate(D) Metals: 1. Aluminum 2. Antimony 3. Arsenic 4. Barium 0.092 0.092 5. Servllium 6. Cadmium <.002 <.002 NC 7. Calcium 8. Chromium 0.074 0.076 2.7 9. Cobalt 10. Copper 11. Iron 12. Lead 13. Magnesium | 14. Manganese | -15. Mercury 16. Nickel 17. Potassium | 18. Selenium 19. Silver 0.010 * 0.010 * 20. Sodium 21. Thallium

/* Out of Control

22. Tin

Cyanide

23. Vanadium
24. Zinc
Other:

To be added at a later date.

 $^{^{2}}$ RPD = [|S - D|/((S + D)/2)] x 100

^{1 -} Non calculable RPD due to value(s) less than CRDL # maicates value is less than 5 x idl

		Form '	<u>v</u>	religical spir	e ng 81
		Q. C. Report N			
- W.W Q.	, ,/	SPIKE SAMPLE		• • • • • •	
B NAME RE			EPA Sa	0. Alent 4 mple No.	
TE	31-86	-	Lab Sa	mple ID No.86	-02-16
		Hatrix wat	WU	ug/ml	
	Control Limit		Sample	Spiked	
papound	232	Result (SSR)		Added (SA)	ZR!
cals:	1			1	
Aluminum	75-125		<u> </u>	<u> </u>	-
Ancimony	-		<u> </u>		<u> </u>
Arsenic			1	<u></u>	!
Barium	-	1.04	0.11	1.00	193
Beryllium	<u> </u>		<u> </u>		!
Cadmium	-	0.88	<.002	1.00	188
Calcium	<u> </u>		<u> </u>	<u> </u>	
Chromium	•	0.94	0.021*	1.00	192
Cobalt	-		<u> </u>	1	
. Copper	•			1	1
. Iron	•			<u> </u>	<u> </u>
. Lead	•			<u> </u>	1
. Magnesium	<u> </u>			1	
. Manganese	• -			<u> </u>	!
. Mercury	•			<u> </u>	
. Nickel	•	L		<u> </u>	<u> </u>
7. Potassium	•			Ĺ	<u> </u>
. Selenium	•				
. Silver	•	0.96	0.0010*	1,00	195
). Sodium	•				
. Thallium	•			<u> </u>	j
. Tia	•				
3. Vanadium	-				
4. Zinc	•				
ther:				•	
					1
yanide) -		1	1	

TO SEE THE PROPERTY OF THE PRO

Volatile Organics Plant 4	DETECTION LIMIT	rs #8466/	2120
HETHOD			METHOD DETECTION LIMIT
СОМРОИИД	-01=-03	-04-05	
Chloromethane	0.08	W.	
Bromomethane	11.18	1180	
Vinyl Chloride	0.18	185	
Chloroethane	0.5%	580	
Methylene Chloride	0.25	250	
Trichlorofluoromethane	0.10	180	
1,1-Dichloroethene	6.13	130	
1,1-Dichloroethane	0.07	70	
Trans-1,2-Dichloroethene	0.10	150	
Chloroform -	6.05	50	
1,2-Dichloroethane	6.03	30	
l,l,l-Trichloroethane	0.03	30	
Carbon Tetrachloride	0.13	120	
Bromodichloromethane	0.10	110	
1,2-Dichloropropane	0.04	40	
Trichloroethene	0.12	130	
Dibromochloromethane	0.89	40	
2-Chloroethylvinyl Ether	10.13	130	
Brcmoform	0.90	300	
Tetrachloroethene	0.03	30	
Chlorobenzene	1,25	250	
.,3-Dichlorobenzene	0.38	320	
1,2-Dichlorobenzene	C.15	1500	
l,4-Dichlorobenzene	0.24	2100	

DETECTION LIMITS

VOLATILE ORGANICS

METHOD

(KIK)3X#	UND DETECTION LIMIT	-01-4-03 -04,-05			Q. A	0.0	6.0	h:0	6.0		
	COMPOUND		BENZENE	TOLUENE	ETHYLBENZENE	CHLOROBENZENE	1,4-DICHLOROBENZENE	1,3-DICHLOROBENZENE	1,2-DICHLOROBENZENE		

LAB #	on BUNK		
CLIENT NAME			
SAMPLE ID			
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD	DATE: 2/15/26 ANALYST: 75 6 INSTRUMENT: 00
COMPOUND	CONCENTRATION (ug/L)	СОМРОИИД	CONCENTRATION (ug/L)
Chloromethane	·	Benzene	NO
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane_		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	_
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroether	<u> 1e</u>	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane 1.1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans-1.3-Dichloroproper Trichloroethene Dibromochloromethane 1.1.2-Trichlorethane cis-1.3-Dichloropropene 2-Chloroethylvinyl ethe Bromoform 1.1.2.2-Tetrachlorethan Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.4-Dichlorobenzene	ene er	SURROGATE RECOVERS 601 Bromochloromethane 2-Bromo-1-Chloropy 1,4-Dichlorobutane 602 a,a,a,-Trifluoroto	copane

LAB # RASEM	Bunk		
CLIENT NAME			
SAMPLE ID			
*****************	***********	252222222222222222	
EPA METHOD	DATE:	EPA METHOD	DATE: 2/25 &L
601	ANALYST: INSTRUMENT:	602	ANALYST: COL
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	No_
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe	ene	M-Xylene	N
Chloroform		O-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride		1	
Bromodichlormethane		1	
1.2-Dichloropropane		SURROGATE RECOVER	RIES:
Trans-1.3-Dichloropror	pene] 601	
Trichloroethene	•/	Bromochloromethan	ne
Dibromochloromethane		2-Bromo-1-Chlorop	ropane
1.1.2-Trichlorethane		1,4-Dichlorobutan	ie
cis-1.3-Dichloroproper	ne	602	
2-Chloroethylvinyl eth	ner	a,a,a,-Trifluorot	oluene
Bromoform		<u> </u>	
1.1.2.2-Tetrachloretha	ane	1	
Tetrachlorethylene		<u>,</u>	
Chlorobenzene	-]	
1.3-Dichlorobenzene		1	
1.2-Dichlorobenzene		_	
1.4-Dichlorobenzene			

LAB # SYSTEM B	WAL			
CLIENT NAME				
SAMPLE ID				
	********	====		
· EPA METHOD	DATE: 2/2/L	/	EPA METHOD	DATE:
601	ANALYST:	54	602	ANALYST:
	INSTRUMENT	: 4	Marine	INSTRUMENT:
		-		
COMPOUND	CONCENTRAT	ION	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	لہ	?	Benzene	
Bromomethane			Toluene	
Vinyl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	1
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropage			SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene			Browochloromethane	
Dibromochloromethane			2-Bromo-1-Chloropr	opane
1.1.2-Trichlorethane			l,4-Dichlorobutane	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether	·		a,a,a,-Trifluoroto	luene
Bromoform				
1.1.2.2-Tetrachlorethane			4	
Tetrachlorethylene				
Chlorobenzene			4	
1.3-Dichlorobenzene			1	
1.2-Dichlorobenzene			4	
1.4-Dichlorobenzene			-{	

LAB # NAMBENT BLANK			
CLIENT NAME			
SAMPLE ID	-		

EPA METHOD DATE:	2/2/36	EPA METHOD	DATE:
601 ANALY	ST: CA	- 602	ANALYST:
INST	RUMENT:	win	INSTRUMENT:
COMPOUND CONCE	ENTRATION	COMPOUND	CONCENTRATION
(1	ıg/L)		(ug/L)
Chloromethane	NO	Benzene	
Bromomethane	1	Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xvlene	
Chloroform	1	0-Xvlene	
1.2-Dichlorethane	1		_
1.1.1-Trichlorethane	1		
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER	ES:
Trans-1.3-Dichloropropene		601	
Trichloroethene	1	Bromochloromethane	·
Dibromochloromethane	<u> </u>	2-Brome-1-Chloropi	opane
1.1.2-Trichlorethane		1,4-Dichlorobutane	=
cis-1.3-Dichloropropene	1	602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	luene
Bromoform	1	<u>}</u> .	
1.1.2.2-Tetrachlorethane			
Tetrachlorethylene		-	
Chlorobenzene		1	
1 1 Disklambers	L	1	
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			

EPA METHOD DATE: 3 601 ANALYS INSTRU COMPOUND CONCEN (ug Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethane 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	57-		
EPA METHOD DATE: 3 601 ANALYS INSTRU COMPOUND CONCEN (ug Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethane 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	675		
COMPOUND CONCEN Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	トルフェ		
COMPOUND CONCEN Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	ノノイン	EPA METHOD	DATE:
COMPOUND CONCEN (ug Chloromethane Bromomethane Yinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform			ANALYST:
COMPOUND CONCEN (ug Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	IMENT:		INSTRUMENT:
Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform		aunt	
Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	TRATION	COMPOUND	CONCENTRATION
Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	(/L)		(ug/L)
Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform			
Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	No	Benzene	
Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform		Toluene	
Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform		Ethyl benzene	
Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	T^{-}	Chlorobenzene	
Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform		1.4-Dichlorobenzene	
1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	I_{-}	1.3-Dichlorobenzene	
Trans-1.2-Dichloroethene Chloroform	L	1,2-Dichlorobenzene	
Chloroform	1	P-Xylene	
		M-Xylene	
1.2-Dichlorethane		0-Xylene	
1.1.1-Trichlorethane]	
Carbon tetrachloride		j	
Bromodichlormethane		_}	
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropene		601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropr	opane
1.1.2-Trichlorethane	.,	l,4-Dichlorobutane	·
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	luene
Bromoform		4	
1.1.2.2-Tetrachlorethane		4	
Tetrachlorethylene		·	
Chlorobenzene		4	
1.3-Dichlorobenzene /	L	4	
1.2-Dichlorobenzene		4	_
1.4-Dichlorobenzene		ľ	
		- [
		-	

	KNT BUNK	 	
CLIENT NAME			
SAMPLE ID			
EPA METHOD 601	DATE: 2) 26 ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	No	Benzene	
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
l.l-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe	ne	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane		_	
Carbon tetrachloride			
Bromodichlormethane		_	
1.2-Dichloropropane		_ SURROGATE RECOVER	RIES:
Trans-1.3-Dichloroprop	ene	601	
Trichloroethene		Browochloromethan	ie
Dibromochloromethane		2-Bromo-1-Chlorop	ropane
1.1.2-Trichlorethane		l,4-Dichlorobutan	e
cis-1.3-Dichloropropen	e	602	
2-Chloroethylvinyl eth	er	a,a,a,-Trifluorot	oluene
Bromoform			
1.1.2.2-Tetrachloretha	ne	_	
Tetrachlorethylene			
Chlorobenzene			
1.3-Dichlorobenzene			
	W		
1.2-Dichlorobenzene			

LAB # 3YS	BUNK		
CLIENT NAME			
SAMPLE ID			
**********	*********	****	
· EPA METHOD	DATE:	EPA METHOD	DATE: 2/21/76
601	ANALYST:	602	ANALYST: 756
	INSTRUMENT:		INSTRUMENT
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)		(ug/L)
			. /-
Chloromethane		Benzene	NO
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane		4	\
1.1.1-Trichlorethane			
Carbon tetrachloride		4	
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropen		601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropr	
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	luene
Bromoform		₹	
1.1.2.2-Tetrachlorethane		┥ .	
Tetrachlorethylene		4	
Chlorobenzene		4	
1.3-Dichlorobenzene		-	
1.2-Dichlorobenzene		-	
1.4-Dichlorobenzene		-	
		<u> </u>	

UNK		
**********		*********
DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2/2//2C ANALYST: C INSTRUMENT: OI
CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
	Benzene	NP
	Toluene	
	Ethyl benzene	
	Chlorobenzene	
	1,4-Dichlorobenzene	
	1.3-Dichlorobenzene	
	1.2-Dichlorobenzene	
	P-Xylene	
le	M-Xylene	
	0-Xylene	
ene er	SURROGATE RECOVERI 601 Browochloromethane 2-Browo-1-Chloropr 1,4-Dichlorobutane 602 a,a,a,-Trifluoroto	ropane
	DATE: ANALYST: INSTRUMENT: CONCENTRATION	DATE: ANALYST: INSTRUMENT: CONCENTRATION (ug/L) Benzene Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene 0-Xylene SURROGATE RECOVER: 601 Browochloromethane 2-Bromo-1-Chloropi 1,4-Dichlorobutane 602 a,a,a,-Trifluoroto

RADIAN

SPIKE RECOVERY

EPA METHOD 601	86031:	14	٨		2/2/21	-	
Volatile Organics	86	2174			Durani		
COMPOUNDS	SSR	SR	SA	7R	SSR	SR	SA :
Chloromethane							
Bromomethane				}			1
Vinyl chloride							
Chloroethane				1			
Methylene chloride	6.9		9.2	75			
Trichlorofluoromethane	6						
l,l-Dichloroethene	6.1		10.0	61			
l,1-Dichloroethane							
trans-1,2-Dichloroethene	4.7		5,4	86			
Chloroform	50.8	0.46	43.0	117			
1,2-Dichloroethane	242		27.6				
1,1,1-Trichloroethane	13.2		14.3	92			
Carbon Tetrachloride	15.8		20.0	79		}	
Bromodichloroemethane	8.0		7.9	101			
1,2-Dichloropropane	7. Y		8.0	13			
Trichloroethene	201		20.7	91			
Dibromochloromethane	13.8		16.7	82			
1,1,2-Trichloroethane						1	
cis-1,2-Dichloropropene							
2-Chlorethylvinyl ether		· · · · · · · · · · · · · · · · · · ·					
Bromoform	9.7		9.9	98			
1,1,2,2-Tetrachloreothar	ie		10,6				
Tetrachlorethylene			6.0				
Chlorobenzene	7.2		8,2	87			,
1,3-Dichlorobenzene			-				
1,2-Dichlorobenzene							
1,4-Dichlorobenzene							·

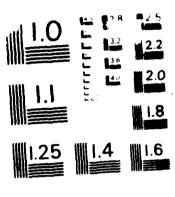
SSR = Spiked Sample Result

SR = Sample Result

6 092

SA = Spike Added

INSTALLATION RESTORATION PROGRAM PHASE 2
COMFIRMATION/QUANTIFICATION STAG (U) RADIAN CORP
AUSTIN TX DEC 87 F33615-83-D-4801 MD-8190 446 276 UNCLASSIFIED F/G 24/7



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AND WILL BY METRIC TO TRANSPORT - 441

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RADIAN

DUPLICATE ANALYSIS

EPA METHOD 602
VOLATILE ORGANICS

SAMPLE # 8((C.2120-05C (S(c)780)

COMPOUND	RUN#1	RUN#2	RPD
Benzene	N:D	<i>V</i> , <i>D</i>	L)C
Toluene			,
Ethyl benzene			
1,4-Dichlorobenzene			
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
0-Xylene			
M-Xylene			
P-Xylene			
Chlorobenzene	1 1	1	Ŷ

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$

THE SECRECAL SECRECAL PROPERTY OF SECRECAL PROPERTY OF SECRECAL SE

RPD= Relative Percent Difference

DUPLICATE ANALYSIS

EPA METHOD 602
VOLATILE ORGANICS

SAMPLE # 34002180-01C (360175)

COMPOUND	RUN#1	RUN#2	RPD
Benzene			
Toluene	1CoC	0.87	168
Ethyl benzene			
1,4-Dichlorobenzene			
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
O-Xylene			
M-Xylene			
P-Xylene			
Chlorobenzene	.,		

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$

RPD= Relative Percent Difference

*- There is a top knight that wish the first run but not unthe second run.



(860179) 8606180-04A

DUPLICATE ANALYSIS

EPA Method 601			<u> </u>			
Volatile Organics						!
41841111				11		
COMPOUND	RUN#1	RUN#2	RPD	RUN#1	RUN#2	RPD
Chloromethane						
Bromomethane						
Vinyl chloride						
Chloroethane						
Methylene chloride						
Trichlorofluoromethane						
1,1-Dichloroethene	 					
l,1-Dichloroethane						
trans-1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane						
1,1,1-Trichloroethane						
Carbon Tetrachloride						
Bromodichloroemethane						
1,2-Dichloropropane						
Trichloroethene	10003	12492	129			
Dibromochloromethane	.0.,05	19 10				
1,1,2-Trichloroethane						
cis-1,2-Dichloropropene						
2-Chloroethylvinyl ether						
Bromoform						
1,1,2,2-Tetrachloreothane						
Tetrachlorethylene						
Chlorobenzene						
1,3-Dichlorobenzene						
1,2-Dichlorobenzene						
1,4-Dichlorobenzene						

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$

RPD= Relative Percent Difference

DAILY QUALITY CONTROL RAS GC LAB

			CDTVCD			 1			
DATE:	-1:-7/26		SPIKED VALUE -	ANAT	LYZED VA	ALIDE		Z	
	5/25/180	·	(ug/L)	******	(ug/L)	TOE :]	RECOVER	, 1
125	. See Notice	INSTRUMENT		۵			Ð		
		ANALYST		Q			4		
TEST METHOD	COMPOU	ND							
EPA 601					1		!		
	Chloromethane		16.2		ļ				
	Chloroethane		28.1						
	Methylene Chloric	ie	26.3			···- <u>-</u>			
	1,1-Dichloroethy	lene	45.0						
	Trans-1,2-Dichlo	roethylene	12.5						
	Carbon Tetrachlo	ride	60.0]					
	Dichlorobromomet	nane	40.0				<u> </u>		
	1,1,2-Trichloroe	thane	33.8	 	<u> </u>				
EPA 602			20.7	31.9			104		
Į.	Benzene		30.7						
	Toluene	·.	4.1	3,9			96		
	Ethylbenzene	_ ··	11.5	9.8			86		
	P-Xylene		19.1	18.0			94	٠.	
	M-Xylene		42.6	39.9			94		
	0-Xylene		10.6	9,0			85		
EPA 608			(ug/g)		(ug/g)				
	Aroclor 1242		58.7						
	Aroclor 1260		56.8						

DAILY QUALITY CONTROL

EPA OC WP 483 cmc 2 + EPA OC WP 781 cmc 7

2/24/36

1116

2/71		G	
	CENTIFIED VALUE (MJ/L)	Analyzed Analyzed	BIR
Chloromethane			
Bromomethane			
Vinyl chloride	<u> </u>		
Chloroethane	·	! 	
Methylene chloride	۶.2	7.5	182
Trichlorofluoromethane			
l,l-Dichloroethene	10.0	8.2	182
1,1-Dichloroethane			
trans-1,2-Dichloroethene	5.4		·
Chloroform	43.0	54.9	128
1,2-Dichloroethane	27.6	31.4	77
1,1,1-Trichloroethane	14.3	5.3	110
Carbon tetrachloride	200	19.8	59
Bromodichloromethane	7.9	8.4	107
1,2-Dichloropropane	8.0	6.3	35
Trichloroethene	22.2	20.3	51 -
Dibromochloromethane	16.7	15.5	93
1,1,2-Trichloroethane cis-1,3-Dichloropropene	 		
2-Chloroethylvinyl ether			
Bromoform	9.9	13.5	107
1.1.2.2-Tetrachloroethane	10.0		
Tetrachloroethylene	6.7		
Chlorobenzene	8.7	8,0	98
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
l,4-Dichlorobenzene			

DAILY QUALITY CONTROL

EPA OC WP 483 cmc 2 + EPA OC WP 781 cmc 7

5/31/86		G	6
	CENTIFIED VALUE (MJ/L)	ANALYZED WALUE	2 nec
Chloromethane			
Bromomethane			
Vinvl chloride			
Chloroethane			
Methylene chloride	9.2	8.6	93
Trichlorofluoromethane			
1,1-Dichloroethene	10.0	8.2	82
1,1-Dichloroethane			
trans-1,2-Dichloroethene	5,4		
Chloroform	43.0	54.2	106
1,2-Dichloroethane	27.6	23.2	34
1,1,1-Trichloroethane	14.3	19.7	35
Carbon tetrachloride	200	18.3	92
Bromodichloromethane	7.9	8.9	112
1,2-Dichloropropane	8.0	8.5	106
Trichloroethene	22.2	22.6	102 -
Dibromochloromethane	16.7	14,5	37
1,1,2-Trichloroethane cis-1,3-Dichloropropene			
2-Chloroethylvinyl ether			
Bromoform	9.9	8.4	185
1.1.2.2-Tetrachloroethane	10.0		
Tetrachloroethylene	6.7		
Chlorobenzene	8.7	7.5	192
1,3-Dichlorobenzene	· · · · · · · · · · · · · · · · · · ·		
1,2-Dichlorobenzene			
1,4-Dichlorobenzene			

DAILY QUALITY CONTROL RAS GC LAB

DATE:	E: 2/3/186		SPIKED VALUE (ug/L)	ANA	LYZED V	ALUE		% RECOVERY	,
		INSTRUMENT		D			٥		
		ANALYST		4			4		
TEST METHOD	COMPOU	Φ.							
EPA 601	Chloromethane		16.2						
	Chloroethan <i>e</i>		28.1						
	Methylene Chloric	le	26.3						
	1,1-Dichloroethy	lene	45.0						
	Trans-1,2-Dichlor	coethylene	12.5				ļ		
	Carbon Tetrachlo	ide	60.0						
	Dichlorobromomethane		40.0						
	1,1,2-Trichloroe		33.8						
EPA 602	002 Benzene		30.7	38.1			124		
	Toluene		4.1	3.9			45		
	Ethylbenzene		11.5	11.5			100		
	P-Xylene		19.1	21.4			112		
	M-Xylene		42.6	57.9			177		
	O-Xylene		10.6	9,5			35		
EPA 608			(ug/g)		(ug/g)				
	Aroclor 1242		58.7						
	Aroclor 1260		56.8			l L			

RADIAN

SURROGATE RECOVERIES

LAB #: 8(02)20-01A
SAMPLE ID: 860175
DATE: 2-21-80
INSTRUMENT: 6
•
601/8010
BROMOCHLOROMETHANE: 108
2-BROMO-1-CHLOROPROPANE: <u>GU</u>
602/8020
a,a,a-TRIFLUOROTOLUENE:

LAB #: 800080-08A
SAMPLE ID: SCO) 78
DATE: 2-21-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 110
2-BROMO-1-CHLOROPROPANE: 110
602/802 0
a,a,a-TRIFLUOROTOLUENE:

LAB #:8100813C-C4A
SAMPLE ID: SCO179
DATE: 2-24-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 100,95
2-BROMO-1-CHLOROPROPANE: 17-118
,
602/8020
a a a-TRIFI HOROTOL HENE:

LAB 4: 8603120-05A
SAMPLE ID: 80180
DATE: 2-24-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 99
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE:

LAB #: SUCCIO-CIC
SAMPLE ID: 800175
DATE: 2-21-80
INSTRUMENT:
(01/00)
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: 103, 102



LAB #:8000100-020
SAMPLE ID: 8(001740
DATE: 2-25-80
INSTRUMENT:
÷
(01/0010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: 31

LAB 4: SCOCQ120-03C
sample id: 860178
DATE: 2-25-80
INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: 133



Secretary Construction of Constitution of Cons

LAB #: 8602130-04C
sample 10: 860179
DATE: 2-25-86
INSTRUMENT:
(01/0010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 1/1



LAB #:8000100-05C
SAMPLE ID: SOOLSO
DATE: 2-85-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 100



(EPA 625 860175, 866,75, 860176

CHAIN OF CUSTODY RECORD

	Fi	eld Sample No
Company Sampled Address (FFA)F	RAL DYNAMICS FORT WORT	H. PLANT 4
	WATER	
Stream Characteristics:		
	Flow	nu.
	FIOW	
Visual Observations/Commissing		
Collector's Name FR. SNYDE	Date/Time Sampled	2/19/56
Amount of Sample Collected(6)	amber Lite	
Sample Description <u>ERCUND WA7</u>	TR	
Store at: ☐ Ambient ☐ 5°C ☐ —	10°C ☑ Other <u>4°C</u>	
.		
Caution - No more sample available	☐ Return unused portion of sample ☐	Discard unused portions
Other Instructions - Special Handling -	Hazards	
	· · · · · · · · · · · · · · · · · · ·	
☑ Hazardous sample (see below)	□ Non honordo	
_	□ Non-hazardo	us sample
Z Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
□ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	∠Carcinogenic · suspect
□ Caustic	☐ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain of Possessio	n·	
	CORP.	
Received By	Date Received	Time
Transported By Tred Sunder	Date Received Lab Sample No ξ ω -	O > 1 7 7
Comments		
	115/86	
Organization Name) Kadibin		
Received By CHIMIULE	Poto Bosolined 7	20-86 Time 09 K
<i>— 1 . 1</i>	Lab Sample No.	
• •	Lab Sample No.	
	Date Received	
	Lab Sample No	
nclusive Dates of Possession		

RADIAN CORPORATION

METALS - GORL, GOOLD

CHAIN OF CUSTODY RECORD

. 1/	Fic	eld Sample No
Company Sampled Address Lie	neral Emmanics-7-1000	the Planty
Sample Point Description	(-00 CA	
Stream Characteristics:		
	Flow	nH
Collector's Name Neul FURINSM.	Ant Moscill Date/Time Sampled_ T MASON SARS, THEE S	2-4-16
Amount of Sample Collected <u>5/6H</u>	T MASON SARS, THEE S	6. 111 Plastic
Sample Description	10°C ØOther 4°C	
Store at: Ambient 5°C -	10°C Ø Other 7 C	
Caution . No more sample available	☐ Return unused portion of sample ☐	Discard unused portions
•		
Other Instructions - Special Handling -	Hazards	
Hazardous sample (see below)	ow) □ Non-hazardous sample	
Ď Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C
□ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	മ് Carcinogenic - suspect
□ Caustic	☐ Peroxide	['] □ Radioactive
□ Other		
Sample Allocation/Chain of Possessio	n· .	
Organization Name Kadlaw	"Corp.	
Received By	Date Received Lab Sample No &	Time
Transported By Like Liver	Lab Sample No. X C	
0 1 -		
Inclusive Dates of Possession 2-4	-110	
-	Date Received	
	Lab Sample No.	
nclusive Dates of Possession		
-	Date Received	
	Lab Sample No.	
· · · · · · · · · · · · · · · · · · ·		
Inclusive Dates of Bossession		

Ex 625 860181,860182,864 83,820184 820185

SAC

CHAIN OF CUSTODY RECORD

,	Fiel	d Sample No
Company Sampled Address	Fiel Dissums cs-F1. 12726 relative	B Plant 4
Sample Point Description <u>Shows</u>	relieter	,
Stream Characteristics:		
	Flow	На
•		· ·
Collector's Name N. July 1750	Date/Time Sampled	2-20-86
Amount of Sample Collected <u>FEN</u>	amber das	
Sample Description <u>Aroundles</u>	nta 1	
Store at: ☐ Ambient ☐ 5°C ☐ -	10°C Ø Other <u>Y'C</u>	
/	☐ Return unused portion of sample ☐ ☐ Hazards	
ÆĤazardous sample (see below)	☐ Non-hazardous	s sample
≱ Toxic	☐ Skin irritant	☐ Fiammable (FP< 40°C)
□ Pyrophoric	☐ Lachrymator	□ Shock sensitive
□ Acidic	☐ Biological	Carcinogenic - suspect
□ Caustic	☐ Peroxide	☐ Radioactive
Other		
Sample Allocation/Chain of Possessio	Date ReceivedLab Sample No	
Received By	Date Received	Time
Transported By N. Hulmon	Lab Sample NoSure	7:13:
Comments		
	70 - 82	
Organization Name	Analytical Services	
Received By () A MUHIN	Date Received 2/	2//56 Time <u>09.30</u>
	Lab Sample No	
Comments		
nclusive Dates of Possession		
Organization Name		
Received By	Date Received	Time
	Lab Sample No	
	· · · · · · · · · · · · · · · · · · ·	

EP.4 601.	: 820186, 860187, 820188 : 860,86, 820187, 860188, : 860187, 860189	Starts CHildren
RADIAN ERA 612	860/50, 820/57, 860/56	States Comments
CORPORATION CIL+GREASE	820187, 830,89	ويعتزار الت
ANGTIN	820187, 830, 49 CHAIN OF CUSTODY RECORD 10183, 860187, 860189	DOA 1311
AC Flic 25 8t	00186,860187,860189	Seld Sample No.
MIETALS. SE	U187, 820182,820189 F	eld Sample No.
Company Sampled Address Lever	al Depremes- Ft. 6k2	the flant 4
Sample Point Description		
Stream Characteristics:		
Temperature	Flow	pH
Visual Observations/Comments		
Collector's Name W. Jahnson	Date/Time Sampled	2-21-52
Amount of Sample Collected Fire - C	CAN THE FOLK OFFILMENT	CHITTEAN WITH
Amount of Sample Collected Five mass Sample Description Franchis Store at: □ Ambient □ 5°C □ -10	reter	youreer wers
Store at: Ambient 5°C -10	0°C ZOther 4°C	
Caution - No more sample available	\square Return unused portion of sample \square	☐ Discard unused portions
Other Instructions - Special Handling - H		
Hazardous sample (see below)	☐ Non-hazardo	us sample
Toxic	☐ Skin irritant	☐ Fiammable (FP< 40°C)
☐ Pyrophoric	☐ Lachrymator	□ Shock sensitive
□ Acidic	☐ Biological	Carcinogenic · suspect
☐ Caustic	☐ Peroxide	☐ Radioactive
Other		
Sample Allocation/Chain of Possession):_	
Organization Name <u>Rudium</u> (up	
		Time
Received By L. Johnson	1	
Comments		
Inclusive Dates of Possession	1-84	
Organization Name RAS		
	Date Received 3	74-96 Time (330
Transported By WJ F5	Lab Sample No. 400	
Comments	Lab Gampie No.	•
Inclusive Dates of Possession		
Organization Name		
Received By		
Received By	Date Received	Time
Transported By Comments	Date Received Lab Sample No	Time

Volatile	Organics
-----------------	----------

DETECTION LIMITS

#	SOK	1	135
_			

METHOD		I	ETHOD DETECTION
сомроии	-(1(-	-(5)	-c.4
Chloromethane	CCS	SCC	30
Bronomethane	1.18	11860	395
Vinyl Chloride	Cu8	1250	45
Chloroechane	0.52	FXXCC	130
Methylene Chloride	0.45	FICE	(1.2.5
Trichlorofluoromethane	Cilci	1000	IJ [™]
1,1-Dichloroethene	(13	1300	32.5
1,1-Dichloroethane	(:0:7	700	17.5
Trans-1,2-Dichloroethene	CalC	ICCC.	25
Chloroform -	0.05	CXX	12.5
1,2-Dichloroethane	(.03	300	7.5
l,l,l-Trichloroethane	003	300	7.5
Carbon Tetrachloride	0.12	1300	35
Bromodichloromethane	OUC	Itec	-25
1,2-Dichloropropane	CCU	4rc	1CC
Trichloroethene	0.12	1310	30_
Dibromochloromethane	0.09	Cicc	22.5
2-Chloroethylvinyl Ether	0.13	1300	32.5
Brcmoform	0.30	300	50
Tetrachloroethene	0.03	200	7.5
Chlorobenzene	1.25	2500	(12.5
,3-Dichlorobenzene	c.3a	3200	X
1,2-Dichlorobenzene	0.15	1500	37.5
1,4-Dichlorobenzene	0.24	2/00	1 (ac

VOLATILE ORGANICS	חבובת	ON LIMITS			
четнор				7×3#	
COMPOUND	90- -19 -	6 5 (F) -	DETECTIO	l LIMIT	
BENZENE	0.3	J.K	2 CCC,		
TOLUENE	(,)	3.0	Cl(CC)		
ETHYLBENZENE	(C.Q	0.6	2) (M)		
CHLOROBENZENE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u>ي</u> ن	900		
1,4-DICHLOROBENZENE	6.3	5.0	(DEJENT)		
1,3-DICHLOROBENZENE	h··)	7,12	(33)		
1,2-DICHLOROBENZENE	۲۰۰۲	(1.0	Sac		

CLIENT NAME SAMPLE ID EPA METHOD DATE: 601 ANALYST: INSTRUMENT COMPOUND CONCENTRAT (ug/L) Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethane 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform	
EPA METHOD DATE: 601 ANALYST: INSTRUMENT COMPOUND CONCENTRAT (ug/L) Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethane 1.1-Dichlorethane Trans-1.2-Dichloroethene	T: INSTRUMENT: JSC INSTRUMENT: ON COMPOUND CONCENTRATION (ug/L) Benzene
601 ANALYST: INSTRUMENT COMPOUND CONCENTRAT (ug/L) Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethane 1.1-Dichlorethane Trans-1.2-Dichloroethene	T: INSTRUMENT: JSC INSTRUMENT: ON COMPOUND CONCENTRATION (ug/L) Benzene
601 ANALYST: INSTRUMENT COMPOUND CONCENTRAT (ug/L) Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethane 1.1-Dichlorethane Trans-1.2-Dichloroethene	T: INSTRUMENT: JSC INSTRUMENT: ON COMPOUND CONCENTRATION (ug/L) Benzene
INSTRUMENT COMPOUND CONCENTRAT (ug/L) Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethane 1.1-Dichlorethane Trans-1.2-Dichloroethene	INSTRUMENT: O. CONCENTRATION (ug/L) Benzene Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene
COMPOUND CONCENTRAT (ug/L) Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene	COMPOUND CONCENTRATION (ug/L) Benzene Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene
Chloromethane Bromomethane Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene	Benzene Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene
Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene	Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene
Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene	Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene
Chloroethane Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene	Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene
Methylene chloride Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene	1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene
Trichlorofluromethane 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene	1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene
1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene	1.2-Dichlorobenzene P-Xylene
1.1-Dichlorethane Trans-1.2-Dichloroethene	P-Xylene
Trans-1.2-Dichloroethene	
	
Chloroform	
ONTO LOTAL	0-Xylene
1.2-Dichlorethane	
1.1.1-Trichlorethane	
Carbon tetrachloride	
Bromodichlormethane	
1.2-Dichloropropane	SURROGATE RECOVERIES:
Trans-1.3-Dichloropropene	601
Trichloroethene	Bromochloromethane
Dibromochloromethane	2-Bromo-1-Chloropropane
1.1.2-Trichlorethane	1,4-Dichlorobutane
cis-1.3-Dichloropropene	602
2-Chloroethylvinyl ether	a,a,a,-Trifluorotoluene
Bromoform	
1.1.2.2-Tetrachlorethane	
Tetrachlorethylene	
Chlorobenzene	
1.3-Dichlorobenzene	
1.2-Dichlorobenzene	
1.4-Dichlorobenzene	

ANDER PROPERTY CONTRACTOR OF THE PROPERTY OF T

LAB #	MGENT BUNK		
CLIENT NAME			
SAMPLE ID			
***********	******	######################################	
EPA METHOD	DATE:	EPA METHOD	DATE: 2/26/34
601	ANALYST:	602	ANALYST:
	INSTRUMENT:	- ·	INSTRUMENT:
			~22
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chlama ahkana		Benzene	No
Chloromethane Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichloroflurometh		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xvlene	
Trans-1.2-Dichloro		M-Xylene	1/
Chloroform	N. F. M. S.	0-Xylene	y
1.2-Dichlorethane			
1.1.1-Trichloretha		7	
Carbon tetrachlori			
Bromodichlormethan]	
1.2-Dichloropropan		SURROGATE RECOVER	IES:
Trans-1.3-Dichloro		601	
Trichloroethene		Bromochloromethan	e
Dibromochlorometha	ne	2-Bromo-1-Chlorop	
1.1.2-Trichloretha	ne	1,4-Dichlorobutan	e
cis-1.3-Dichloropr	opene	602	
2-Chloroethylvinyl	ether	a,a,a,-Trifluorot	oluene
Bromoform		_	
1.1.2.2-Tetrachlor	ethane	-	
<u>Tetrachlorethylene</u>		<u> </u>	
Chlorobenzene		4	
1.3-Dichlorobenzen	e	_	
1.2-Dichlorobenzen	e	-	
1.4-Dichlorobenzen	e	_	
		İ	

LAB # SYSTO B	Unk		
CLIENT NAME			
SAMPLE ID			

EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2/2751 ANALYST: 356 INSTRUMENT: 00
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	No
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane	··	Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane	·····	P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	<u>d</u>
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERIE	ES:
Trans-1.3-Dichloropropen	e	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropro	
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluorotol	luene
Bromoform	 		
1.1.2.2-Tetrachlorethane			
Tetrachlorethylene		1	
Chlorobenzene)
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			į
1.4-Dichlorobenzene			i

LAB # (CANGERA)	RUNK		
CLIENT NAME			
SAMPLE ID			
	********		*********
EPA METHOD	DATE:	EPA METHOD	DATE: 2/21/36
601	ANALYST:	602	ANALYST:
	INSTRUMENT:	• • •	INSTRUMENT O
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
			,
Chloromethane		Benzene	NO
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xvlene	
Trans-1.2-Dichloroether	<u> </u>	M-Xylene	/
Chloroform		0-Xylene	
1.2-Dichlorethane		1	
1.1.1-Trichlorethane	<u></u>	-	
Carbon tetrachloride		4	
Bromodichlormethane		4	
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroprope		601	
Trichloroethene		Bromochloromethane	
<u>Dibromochloromethane</u>		2-Bromo-1-Chloropr	
1.1.2-Trichlorethane		l,4-Dichlorobutane	·
cis-1.3-Dichloropropene		602	_
2-Chloroethylvinyl ethe	<u> </u>	a,a,a,-Trifluorotoluene	
Bromoform		4	
1.1.2.2-Tetrachlorethan		+	
<u>Tetrachlorethylene</u>		+	
Chlorobenzene		-	
1.3-Dichlorobenzene		+	
1.2-Dichlorobenzene			
1.4-Dichlorobenzene			
1		1	
		!	

LAB #	n Blank		
CLIENT NAME			
SAMPLE ID			
**********	**********	********	
EPA METHOD 601	DATE: ANALYST:	EPA METHOD 602	DATE: 2/247L ANALYST! P
	INSTRUMENT:		INSTRUMENT POL
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	No
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroeth		M-Xylene	(1/
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane]	
Carbon tetrachloride]	
Bromodichlormethane]	
1.2-Dichloropropage		SURROGATE RECOVER	ES:
Trans-1.3-Dichloropro	pene	601	
Trichloroethene	-	Browochloromethane	·
Dibromochloromethane		2-Bromo-1-Chloropi	opane
1.1.2-Trichlorethane		l,4-Dichlorobutane	
cis-1.3-Dichloroprope		602	
2-Chloroethylvinyl et		a,a,a,-Trifluorotoluene	
Bromoform		1	
1.1.2.2-Tetrachloreth	ane	4	
Tetrachlorethylene		1	
Chlorobenzene		1	
1.3-Dichlorobenzene		4	
1.2-Dichlorobenzene		_	
1.4-Dichlorobenzene		_	

LAB # Te	When Bent		
CLIENT NAME			
SAMPLE ID			
	***********		************
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2/24/TL ANALYST: C INSTRUMENT: O.
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	NP
Bromomethane		Toluene	1
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane	-	P-Xylene	
Trans-1.2-Dichloroeth	ene	M-Xylene	V
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane]	
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloropro	pene	601	
Trichloroethene		Bromochloromethan	ie
Dibromochloromethane		2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		1,4-Dichlorobutan	
cis-1.3-Dichloroprope		602	
2-Chloroethylvinyl et		a,a,a,-Trifluorotoluene	
Bromoform]	
1.1.2.2-Tetrachloreth	nane]	;
Tetrachlorethylene		. ·	
Chlorobenzene			
1.3-Dichlorobenzene]	
1.2-Dichlorobenzene			j
1.4-Dichlorobenzene]	
		1	•
			ļ
1			:

EPA METHOD DA			
EPA METHOD DA		********	
	TE: 2/24/76 ALYST: ブラド STRUMENT: 少	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND CO	NCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	$\mathcal{N}_{\mathcal{O}}$	Benzene	
Bromomethane	/	Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloropropene		↓ 601	
Trichloroethene		Browochloromethan	
Dibromochloromethane		2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		l,4-Dichlorobutan	·
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	luene
Bromoform		<u> </u>	
1.1.2.2-Tetrachlorethane		<u>-</u>	
<u>Tetrachlorethylene</u>		•	
Chlorobenzene		4	
1.3-Dichlorobenzene		4	
1.2-Dichlorobenzene		-	
1.4-Dichlorobenzene	<u>v</u>	-	

SAMPLE ID			
EPA METHOD 601	DATE: 2/24/24 ANALYST: CI INSTRUMENT:	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	No	Benzene	···
Bromomethane		Toluene	<u></u>
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
l.l-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride		_	
Bromodichlormethane		_	
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloroproper	ie	601	
Trichloroethene		Browochloromethan	e
Dibromochloromethane		2-Bromo-1-Chlorop	ropane
1.1.2-Trichlorethane		l,4-Dichlorobutan	e
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether	·	a,a,a,-Trifluorot	oluene
Bromoform		<u> </u>	
1.1.2.2-Tetrachlorethane	·	4	
Tetrachlorethylene		_	
Chlorobenzene		_	
1.3-Dichlorobenzene		4	
1.2-Dichlorobenzene		_	
1.4-Dichlorobenzene			

SECOLO DODGO DE NOSSOSSO, SEPTEMBO DE CONTROPO, SECONOS A SESSOSSOS. SEDESTAS A SECURIO DE CONTROPO DE CONTROPO ES

LAB # SYS	KA BUNK	-		
CLIENT NAME				
SAMPLE ID				
	******	,======		
EPA METHOD	DATE: >	135/36	EPA METHOD	DATE:
601	ANALYST	: 556	602	ANALYST:
	INSTRUM	ENT: 4	4.4	INSTRUMENT:
COMPOUND	CONCENT	RATION	COMPOUND	CONCENTRATION
	(ug/	L)		(ug/L)
Chloromethane	^	Jo	Benzene	
Bromomethane		7	Toluene	
Vinvl Chloride		1	Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane		i	P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xvlene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride	1			
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVER	IES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene			Bromochloromethan	e
Dibromochloromethane			2-Bromo-1-Chlorop	
1.1.2-Trichlorethane			1,4-Dichlorobutane	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether	·		a,a,a,-Trifluoroto	oluene
Bromoform				
1.1.2.2-Tetrachlorethane				
Tetrachlorethylene			·	
Chlorobenzene				
1.3-Dichlorobenzene				
1.2-Dichlorobenzene	-N+			
1.4-Dichlorobenzene				
·			<u> </u>	

Lab #	Bunk		
SAMPLE ID			
SAMPLE ID			
EPA METHOD 601	DATE: ANALYST: C	EPA METHOD	DATE: ANALYST:
	INSTRUMENT:	Min	INSTRUMENT:
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	No	Benzene	
Bromomethane	·	Toluene	
Vinyl Chloride	I	Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane		1	
1.1.1-Trichlorethane]	
Carbon tetrachloride]	
Bromodichlormethane		_	
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloropropen	e	601	
Trichloroethene		Browochloromethan	e
Dibromochloromethane		2-Brome-1-Chlorop	ropane
1.1.2-Trichlorethane		1,4-Dichlorobutan	e
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluorot	oluene
Bromoform		+	
1.1.2.2-Tetrachlorethane		<u> </u>	
Tetrachlorethylene			
Chlorobenzene		<u> </u>	
1.3-Dichlorobenzene			
		<u>!</u>	
1.2-Dichlorobenzene			

DAILY QUALITY CONTROL RAS GC LAB

DATE:	3/35/36		SPIKED VALUE - (ug/L)	ANAI	YZED VA	TUE	<u>-</u>	% RECOVERY	
	* _**	INSTRUMENT		7			D		
		ANALYST	,	Q			4		
TEST METHOD	сомрои	ND							
EPA 601	Chloromethane		16.2						
	Chloroethane		28.1						
	Methylene Chloric	de	26.3						
	1,1-Dichloroethy	lene	45.0						
	Trans-1,2-Dichlo	roethylene	12.5						
	Carbon Tetrachlo	ride	60.0						
	Dichlorobromomet	hane	40.0		-				
	1,1,2-Trichloroe	thane	33.8						
EPA 602	Benzene		30.7	31.9			104		
	Toluene		4.1	3,9			96	ļ	
	Ethylbenzene		11.5	9.8			86		
	P-Xylene		19.1	18.0			94		
	M-Xylene		42.6	39,9			94		
	O-Xylene		10.6	9,0			85		
EPA 608	,		(ug/g)		(ug/g)		,		
	Aroclor 1242		58.7						
	Aroclor 1260		56.8		<u> </u>				

DAILY QUALITY CONTAIL

EPA DC WP 483 cmc 2 + EPA DC WP 781 cmc 7

2/24/36

2/11		C	
	CENTIFIED VALUE (MG/L)	ANDIASED WALASED	Snee
Chloromethane			
Bromomethane			
Vinyl chloride			
Chloroethane			
Methylene chloride	9.2	7.5	82
Trichlorofluoromethane			
l,l-Dichloroethene	10.0	8.2	182
1,1-Dichloroethane			
trans-1,2-Dichloroethene	5,4	<u></u>	
Chloroform	43.0	54.9	198
1,2-Dichloroethane	27.6	31.4	77
1,1,1-Trichloroethane	14.3	5.8	110
Carbon tetrachloride	200	19.8	59
Bromodichloromethane	7.9	8.4	107
1,2-Dichloropropane	₹.0	6.3	35
Trichloroethene	22.2	20.3	51
Dibromochloromethane	16.7	15.5	93
1,1,2-Trichloroethane			
cis-1,3-Dichloropropene			
2-Chloroethylvinyl ether Bromoform	9.9	13.5	107
1.1.2.2-Tetrachloroethane	10.0		
Tetrachloroethylene	6.2		
Chlorobenzene	8.7	8,0	98
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
1,4-Dichlorobenzene			

DAILY QUALITY CANTAUL

EPA DC WP 483 cmc 2 + 6PA DC WP 781 cmc 7

6 2/25/86

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	CENTIFIED VALUE (MJ/L)	ANALYZED VALUE	Bree
Chloromethane			
Bromomethane			
Vinyl chloride			
Chloroethane	·		
Methylene chloride	9.2	8.7	95
Trichlorofluoromethane			
1,1-Dichloroethene	10.0	7.9	79
l,l-Dichloroethane			
trans-1,2-Dichloroethene	5.4	-	
Chloroform	43.0	58	135
1,2-Dichloroethane	27.6	રૂ ૩	23
1,1,1-Trichloroethane	14.3	16.2	113
Carbon tetrachloride	200	30. D	101
Bromodichloromethane	7.9	8.6	301
1,2-Dichloropropane	8.0	7.1	89
Trichloroethene	22.2	ચા. 8	98 -
Dibromochloromethane 1,1,2-Trichloroethane	16.7	15.3	92
cis-1,3-Dichloropropene			
2-Chloroethylvinvl ether		11	115
Bromoform	9.9	11.4	
1.1.2.2-Tetrachloroethane Tetrachloroethvlene	6.2		
Chlorobenzene	8.7	7.1	87
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
l,4-Dichlorobenzene			

DAILY QUALITY CONTROL RAS GC LAB

DATE: 2	126/26		SPIKED VALUE (ug/L)	ANA	LYZED VA	ALUE	,	% RECOVERY	7
	•	INSTRUMENT		D			D		
		ANALYST		u			Q		
TEST METHOD	COMPOU	ID							
EPA 601	Chloromethane		16.2						
	Chloroethane		28.1						
	Methylene Chlorid	e	26.3			•			
	l,l-Dichloroethyl	ene	45.0						
	Trans-1,2-Dichloroethylene		12.5						
	Carbon Tetrachloride		60.0						
	Dichlorobromometh	ane	40.0						
	1,1,2-Trichloroet	hane	33.8						
EPA 602	Benzene		30.7	35.5			h5		
	Toluene		4.1	4.4			107		
	Ethylbenzene		11.5	11.8			103		
	P-Xylene		19.1	21.1			111		
	M-Xylene		42.6	49.7			117		
	O-Xylene		10.6	9,0			35		
EPA 608			(ug/g)		(ug/g)				
	Aroclor 1242		58.7						
	Aroclor 1260		56.8						

DAILY QUALITY CONTROL RAS GC LAB

DATE:	2/27/86	SPIKED VALUE (ug/L)	ANA	LYZED V (ug/L)	ALUE		% RECOVER	Y
	INSTRUMENT		D			D		
TEST METHOD	COMPOUND							
EPA 601	1							
	Chloromethane Chloroethane	16.2 28.1		<u> </u>				
	Methylene Chloride	26.3			3			
	1,1-Dichloroethylene	45.0						
	Trans-1,2-Dichloroethylene	12.5	<u> </u>					
	Carbon Tetrachloride Dichlorobromomethane	60.0 40.0	<u> </u>		<u> </u>			
<u> </u>	1,1,2-Trichloroethane	33.8						
EPA 602	Benzene	30.7	40.5	35.8		132)(7	-
	Toluene	4.1	4,9	4.10		150	113	
	Ethylbenzene	11.5	13.2	11.9		114	104	
	P-Xylene	19.1	23.3	21.2	-	155	111	
	M-Xylene	42.6	78.0	52.3		183	123	
	0-Xylene	10.6	9.6	9.0		91	85	
EPA 608		(ug/g)		(ug/g)				
	Aroclor 1242	58.7			-			
L	Aroclor 1260	56.8						

SPIKE RECOVERY

EPA Method 602				
Volatile Organics	2.1	12c12c RP		
	1	ep -		
SAMPLE # 84 00138-01	AC D			
SAMPLE # 86 00138-01 UNITS PUNTY 86	40184			
Som	-			
COMPOUND	SSR	SR	SA	ZR
				
Benzene	38.0	<u></u>	30.7	191
Toluene	4.9	0.56	4.1	106
Ethyl benzene	12.9		11.5	112
1,4-Dichlorobenzene				
1,3-Dichlorobenzene		<u></u>		
1,2-Dichlorobenzene				
0-Xylene	9.2		10,6	87
M-Xylene	784		42.6	184
P-Xylene	29.5		19.1	118
Chlorobenzene				

SSR = Spiked Sample Result

SR = Sample Result

SA = Spike Added

SPIKE RECOVERY

EPA METHOD 601 Volatile Organics	26	3-0 my 0189		o	2/25/Bl AP Dermi			
COMPOUNDS	SSR	SR	SA	ZR	SSR	SR	SA	ZR
Chloromethane								
Bromomethane		1						
Vinyl chloride								
Chloroethane								
Methylene chloride	7.1		9.2	77				
Trichlorofluoromethane			1					
1,1-Dichloroethene	6.5		10.0	1.5				
1,1-Dichloroethane			ľ					
trans-1,2-Dichloroethene	5,3		5.4	97				
Chloroform	51.2		43.0	119				
1,2-Dichloroethane	21.2		27.6					
1,1,1-Trichloroethane	15,2		14.3					
Carbon Tetrachloride	20.2		20.0	101				
Bromodichloroemethane	8.2		1.9	104				
1,2-Dichloropropane	7.5		8.0	54				
Trichloroethene	28.9	5585	22.7	130				
Dibromochloromethane	(1.2		14.7					
1,1,2-Trichloroethane								
cis-1,2-Dichloropropene								
2-Chlorethylvinyl ether								
Bromoform	10.5		9.9	106				
1,1,2,2-Tetrachloreothan			10.0	_				
Tetrachlorethylene			6.2	1				
Chlorobenzene	7.8		8.2	95				
1,3-Dichlorobenzene			-					
1,2-Dichlorobenzene								
1,4-Dichlorobenzene								

& SAMPLE PRINCIPLY SUBTRACTED OUT.

SSR = Spiked Sample Result

SR = Sample Result

6 131

SA = Spike Added



STATE OF STATE OF SECRETARIAN STATES

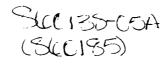
DUPLICATE ANALYSIS

			 	
EPA METHOD 602 VOLATILE ORGANICS				
sample # <u>S(CQB8</u> -C) units <u>(S(C112</u>)				
COMPOUND	RUN#1	RUN#2	RPD	
Benzene	ND	NA	K.(!	
Toluene				
Ethyl benzene				
1,4-Dichlorobenzene				
1,3-Dichlorobenzene				
1,2-Dichlorobenzene				,
0-Xylene				1
M-Xylene				
				
P-Xylene				Į.

$$RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$$

RPD= Relative Percent Difference





DUPLICATE ANALYSIS

EPA Method 601	i					
Volatile Organics						
G						
COMPOUND	RUN#1	RUN#2	RPD	RUN#1	RUN#2	RPD
Chloromethane	ND	ND	NC			
Bromomethane	j					
Vinyl chloride						
Chloroethane					_	
Methylene chloride						
Trichlorofluoromethane						
l,1-Dichloroethene						
1,1-Dichloroethane						
trans-1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane						
l,l,l-Trichloroethane						
Carbon Tetrachloride						
Bromodichloroemethane						
1,2-Dichloropropane						
Trichloroethene						
Dibromochloromethane						
1,1,2-Trichloroethane						
cis-1,2-Dichloropropene						
2-Chloroethylvinyl ether						
Bromoform						
1,1,2,2-Tetrachloreothane						
Tetrachlorethylene						
Chlorobenzene	i		1-1			
1,3-Dichlorobenzene						
1,2-Dichlorobenzene	-	:				
1,4-Dichlorobenzene	7	7				

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$

RPD= Relative Percent Difference

LAB #: S(CC) 35-CIA
SAMPLE ID: SICCISI
DATE: 2-24-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: SS
2-BROMO-1-CHLOROPROPANE: QQ
602/802 o
a,a,a-TRIFLUOROTOLUENE:

LAB #: S(CCQ135-C3A)
SAMPLE ID: SCC162
DATE: 22486
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 43
2-BROMO-1-CHLOROPROPANE: 1(4
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: 3003138-03A
SAMPLE ID: SUCIBB
DATE: 3-24-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: ICC
2-BROMO-1-CHLOROPROPANE: 1
602/8020
a.a.a-TRIFLUOROTOLUENE:



LAB #: 8(((2)35) CUA
SAMPLE ID: SCC [80]
DATE: 2-34-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 103
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: S(C) 2138-CDA
SAMPLE ID: SCC185
DATE: 2-34-SG
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 93,98
2-BROMO-1-CHLOROPROPANE:
. ,
602/802 0
a,a,a-TRIFLUOROTOLUENE:

LAB #: SCC2135-(1)A
SAMPLE ID: Suc 186
DATE: 3-124-54
INSTRUMENT: G
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE:

LAB #: YUL 2135-17A
SAMPLE ID: SUCIST
DATE: 3-34-56
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 191
2-BROMO-1-CHLOROPROPANE: 133
602/802 0
a,a,a-TRIFLUOROTOLUENE:



COCCAN BESTERSANT ASSESSMENT MASSESSMENT

	LAB #: SCC 3135-65A
	SAMPLE ID: SULISS
	DATE: 3-35-5(C
	INSTRUMENT:
	601/8010
	BROMOCHLOROMETHANE: 100
¥	-2-BROMO-1-CHLOROPROPANE: 133
	602/802 0
	a,a,a-TRIFLUOROTOLUENE:
Ļ	interference involved with the recovery

LAB #: SCCOBS-CA
SAMPLE ID: SCO189
DATE: 2-25-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 100
2-BROMO-1-CHLOROPROPANE: 119
602/802 0
a,a,a-TRIFLUOROTOLUENE:

LAB #: SICC DES-CIC
SAMPLE ID: SCESI
DATE: 2-25-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: 114



LAB #: 3000135-000.
SAMPLE ID: SUCISA
DATE: 0-25-56
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: K,U, \((, \)

LAB #: SCCQ138-03C
SAMPLE ID: SCORES
DATE: 2-36-86
INSTRUMENT:
701/0010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: 1

LAB #: SCC 2135-CCC.
SAMPLE ID: SUE 154
DATE: 3-3(c-5)C
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUFNE: (\'\)

LAB #: SCCQ138-05C
SAMPLE ID: SUC 185
DATE: 3-30-80
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: SUC 2135-CUA
SAMPLE ID: SCO 180
DATE: 2-310-80
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: SC(2136-C7C
SAMPLE ID: SUC 187
DATE: 2-3(C-3)C
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a,a,a-TRIFLUOROTOLUENE: \ \ \



LAB #: SCC (2) 58-080
SAMPLE ID: S(OU)S8
DATE: 2-27-56
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLORGPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: SUBBS-C90
SAMPLE ID: SUCISCI
DATE: 3-37-56
INSTRUMENT:
601/9010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 0
a.a.a-TRIFLUOROTOLUENE. 97

EPA 601 860181,860183,860183,860184,860185-

AUSTIN

METALS: 860181, 860182, 830183, 860184, 860185

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	360131,200.027	Field Sample No
Company Sampled / Address	Dunings - Ft Wax	6 Plant 4
Sample Point Description	elisater	
Stream Characteristics:		
Temperature	Flow	oH
Visual Observations/Comments		•
Collector's Name W. Johnson	Date/Time Samp	oled _2 · 20 · 86
Amount of Sample Collected TAINT Sample Description	4 VUAS, FIVE STUMP	1usti
Sample Description Manuals	roker	
Store at: ☐ Ambient ☐ 5°C ☐ —	10°C ☑ Other 4°C	
Caution - No more sample available	☐ Return unused portion of same	ole ☐ Discard unused portions
/		
Other Instructions - Special Handling -	mazards	
₩ Hazardous sample (see below)	☐ Non-haz	ardous sample
⊠ Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
☐ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	Carcinogenic - suspect
☐ Caustic	☐ Peroxide	☐ Radioactive
□ Other		· · · · · · · · · · · · · · · · · · ·
Sample Allocation/Chain of Possession Organization Name Allocation Name Allocation Name Transported By	n:,/	
Organization Name <u>Situlium</u>	(np	
Received By	Date Receive	d Time
Transported By 1. Julinar	Lab Sample No 🖔	02-139
Comments		
Inclusive Dates of Possession _2 -	20-86	
Organization Name RAS		
Received By AW TUVING	1 Date Receive	d 2-31-96 Time 600
Transported By Jud 97	Lab Sample No.	5003133 139
Comments		
Inclusive Dates of Possession		
Organization Name		
Received By	Date Receive	d Time
Transported By		
Comments	•	
Inclusive Dates of Possession		

Q. C. Report No. 4

LAB NAME Ra					CASE NO.	PLANTY ug/ml		
DATE	- 31 - 86	•			UNITS	ug/ml		
		Mac	Macrix water					
	Initial	Cont	inuing C	alibra	Elon	11		
Preparation	Calibration	Blank Value				Preparati	on Blank	
Compound	Blank Value	1_1	2	3	4	1	2	
Metals:							-	
l. Aluminum					-			
2. Ancimony								
3. Arsenic								
4. Barium					1	10.004		
5. Beryllium					į			
6. Cadmium						11<.002		
7. Calcium								
8. Chromium						112.005		
9. Cobalt								
10. Copper						1		
ll. Iron								
12. Lead								
13. Magnesium								
14. Manganese								
15. Mercury						11		
16. Nickel						11		
17. Potassium								
18. Selenium								
19. Silver						1002		
20. Sodium								
21. Thallium						11	<u> </u>	
22. <u>Tia</u>								
23. Vanadium								
24. Ziac			}			il		
Other:						il I		
					1	1!!!!		
Cyanide			1		1	11		

* indicates value is less than 5 4 idl

For work orders:

ICP QC DATA-PLANT 4

86-02-100 86-02-120 86-02-139 86-02-159

Form II - pg /

Q. C. Report No. ____4

INITIAL AND CONTINUING CALIBRATION VERIFICATION3

LAB	NAME Ra	dien			CASE	NO	PLAN	r 4		
					SOW !	NO				
DAI	E 3 - 3.	1-86			UNIT	بهيد	/			
Com	ound	Initia	1 Calib	UNITS						
Meta	als:	True Value	Found	I IR	True Value	Found	<u> </u>	Found	232	Method 4
1.	Aluminum									
2.	Ancimony	<u> </u>					<u> </u>			
3.	Arsenic									
4.	Barium	1.00	0.99	991	1.00	0.99	199	0.98	981	P
5.	Beryllium						1		1	1
6.	Cadmium	1.00	0.98	98	1.00	1.01	101	1.00	100	P
7.	Calcium						1			<u> </u>
8.	Chromium	1.00	0.98	98	1.00	1.01	101	0.99	991	P
9.	Cobalt								1	!
10.	Copper								İ	1
11.	Iron	1		1						
12.	Lead			1					Ì	
13.	Magnesium	<u> </u>								
14.	Manganese									
15.	Mercury		-							1
16.	Nickel									
17.	Pocassium						<u> </u>			1
18.	Selenium									1
19.	Silver	1.00	0.99	1991	1.00	0.99	199	0.99	991	P
20.	Sodium									
21.	Thallium									!
22.	Tin									
23.	Vanadium								1	
24.	Zinc									1
Othe	F:									
Cyan	ide					i		1	Ī	

I Initial Calibration Source 2 Continuing Galat. accord Source

3 Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Usad: P - ICP/Flases AA, F - Turnace

for work orders 86-02-100 86-02-120 86-02-139

86-02-159

Form II pg 2

Q. C. Report No. 4

ということは、これのできないとは、これのないというないできないとのできませんからないのできます。

INITIAL AND CONTINUING CALIBRATION VERIFICATION3

LAB	NAME	adion			CASE	NO	Lan	t. 4		
						NO.				
	<u> 3 -</u>				UNITS ualml					
Com	oound	Ini	cial Calib	.1	Continuing Calibration ²					
Met.	als:	True Val	ue Found	IR	True Value	Found	<u> </u>	Found	===	Method 4
	Aluminum			1	<u> </u>					
2.	Ancimony		1		11					
3.	Arsenic					-			ł	
4.	Barium				11.00	10.99	199			II P
5.	Beryllium									
6.	Cadmium				111.00	1.03	103			P
7.	Calcium			1					1	
8.	Caromium				11,00	1.02	102			P
9.	Cobalt			Ι	H					
10.	Copper								1	
11.	Iron	<u> </u>			11					
12.	Lead				11					1
13.	Magnesium				11				1	
14.	Manganese		1						ł	
15.	Mercury		` -		11				1	
	Nickel			1						
17.	Potassium				11	1				
18.	Selenium			1	11	ĺ				1
19.	Silver		ĺ		1,00	0.99	99			li P
20.	Sodium				11	1				
21.	Thallium		<u> </u>							
22.	Tia		1							
	Vanadium		1		11	1				
24.	Zinc					j				
	r:			 	 		 			
					11				i	
Cyan	ide			 			1		Ī	

I Initial Calibration Source 2 Continuing Calibration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

For work orders 86-02-100 86-02-120 86-02-129 86-02-159

Form III

Q. C. Report No. 4

BLANKS

LLE NAME Radian	CASE NO. PLANT 4
DATE 3-31-86	UNITS ug/ml
	Matrix water

	Intrial	Cont	inuing C	alibraci	<u> </u>	11		
reparation Calibration Blank Value					P	Tepara	cion Blani	
Compound	Blank Value	1	2	3	4		1	2
letals:			1	1				į -
. Aluminum			<u> </u>		-			
. Antimony								
. Arsenic								
. Barium	<.001	10.003	0.003	1.001				
. Beryllium								
- Cadmium	2.002	11.002	002	<.002				
. Calcium								
. Chromium	<.005	1.005	0 006	<.005	İ			1
. Cobalt								
O. Copper								
1. Iron						H		
2. Lead					1			
3. Magnesium					1	11		
4. Manganese								
5. Mercury						1	•	
6. Nickel								
7. Pocassium								
8. Selenium							-	1
9. Silver	<.002	10.016	0.014	2.002		Hi	_	i
O. Sodium								İ
1. Thallium		11						
2. <u>Tia</u>								1
3. Vanadium								1
4. Zine						<u> </u>		
ther:					1	11		1
				1	1	11		!
vanide					!	11		1

^{*} indicales value is less than 5x cal

Bor work ander 36-02-139

ab Name <u>Ra</u> ate <u>3</u>		SPIKE SAMPLE 1	CASE NO EPA San Lab San Units	D. <u>Plant 4</u> mple No. mple ID No. 866 ug/ml	
	Control Limit	Hatrix <u>Whati</u> Spiked Sample	Sample	Spiked	
ompound	228	Result (SSR)	Result (SR)	Added (SA)	IR!
ecals:					
Aluminum	75-125			<u> </u>	
Ancimony	-	<u> </u>		<u> </u>	1
Arsenic	<u> </u>				
Barium	-	1.04	0.10	1.00	194
Beryllium	i -				!
Cadmium	-	0.92	<.002	1.00	192
Calcium	•				!
Chromium	•	1.08	0.14	1,00	194
Cobalt	•				
. Copper	-			<u> </u>	1
. Iron	•				
. Lead	•				
. Magnesium	-				!
. Manganese	a				
. Mercury	•				
i. Nickel	•				1
7. Pocassium	•				1
. Selenium	•				
. Silver	•	0.96	0.012	1,00	95
). Sodium	-				
l. Thallium	•				
. Tin	•			1	1
. Vanadium	-				
4. Ziac	•				
ther:				•	
	1				1
ranide	•			·	1

6 157



ESSENDING SERVICE SERVICES SERVICES CONTRACTOR SERVICES S

CHAIN OF CUSTODY RECORD

	Fie	eld Sample No. <u>\$60179</u>
Company Sampled / Address	Aut 4	
Sample Point Description		
Stream Characteristics:		
Temperature	Flow	pH
Visual Observations/Comments		
Collector's Name	8 VOA o Date/Time Sampled	2-19-86
Amount of Sample Collected	& VOAo	511
Sample Description	Mester m 6	(4
Store at: ☐ Ambient ☐ 5°C ☐ —	10°C □ Other <u>U</u>	
☐ Caution · No more sample available	☐ Return unused portion of sample ☐	Discard unused portions
Other Instructions · Special Handling ·	Hazards	
☐ Hazardous sample (see below)	□ Non-hazardo	us sample
□ Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
☐ Pyrophoric	□ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	☐ Carcinogenic · suspect
□ Caustic	☐ Peroxide	□ Radioactive
Other		
Sample Allocation/Chain of Possession	on:	
Organization Name RAS		
Received By Augustin	212 Date Received	2-20-86 time
Transported By	Lab Sample No.	C 2 - 1 - 2
Comments		
Inclusive Dates of Possession	2-a0-86-2-a4-81	6
Organization Name RAS - 50	لو	
Received By Liquida Fro	Date Received	2125 16 Time 9: 40
Transported By Fuel X 736	143935 Lab Sample No	
_		
Inclusive Dates of Possession		
Organization Name		
•	Date Received	
	Lab Sample No	
Comminclu: 74335	6 158°	

RADIAN SAL

E 1625: 800186,800138,80059° EPALOY: 860181 (2)

CHAIN OF CUSTODY RECORD

		Field Sample No.
Company Sampled / Address	al Dynamics FA.W	nxh-Plant 4
Sample Point Description Yrom	relivation	
Stream Characteristics:		
Temperature	Flow	pH
Visual Observations/Comments		
Collector's Name N. Jahns	Date/Time Sam	pled 2/21/82
Amount of Sample Collected FULL	amber Column TWO U	OAS
Sample Description Lyongham	z. vev	
Store at: ☐ Ambient ☐ 5°C ☐ -	10°C Pother Y°C	1025
Caution · No more sample available	☐ Return unused portion of san	nole Discard unused portions
r		
Other Instructions - Special Handling -	Hazards	
Hazardous sample (see below)	□ Non-ha	zardous sample
a∕ toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
□ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	✓ Carcinogenic · suspect
□ Caustic	☐ Peroxide	□ Radioactive
□ Other		
Sample Allocation/Chain of Possessio	n: _	
Organization Name Black are	Corp.	
Received By	Date Receiv	ed Time
Transported By W. Jahner	Lab Sample No.	2-22 1-2-
Comments	· · · · · · · · · · · · · · · · · · ·	
nclusive Dates of Possession	21-86	
Organization Name Radian	Son - Sac	
Received By Littuda Pruru	Onto Bossiy	ed 2 45/86 Time 9:40
Transported By Feel X 134	74393 Lab Sample No	ed <u>Spar</u> time
Comments	•	
nclusive Dates of Possession		
Organization Name		
		ed Time
nclusive Dates of Possession		

EPA 602: 820190, 820191, 860192, 820193, 820194 MCTALS 860190, 860191, 860412, 820/94

AUSTA CHAIN OF CUSTODY RECORD FIELD BLANKS: 860194 Field Sample No. _____ TRIP BLANK Company Sampled Address Girled Denamics - A. Well Plant Sample Point Description Grounding Stream Characteristics: _____ Flow _____ pH _____ Temperature _____ Visual Observations/Comments _____ Collector's Name N. Juhnson Date/Time Sampled 2 Amount of Sample Collected 31 V(45, , 4 - 500ml plush Sample Description Smardwarm Store at: ☐ Ambient ☐ 5°C ☐ -10°C ☐ Other 4°C ☑ Caution · No more sample available □ Return unused portion of sample □ Discard unused portions Other Instructions · Special Handling · Hazards _______ ☑Hazardous sample (see below) ☐ Non-hazardous sample ☐ Flammable (FP< 40°C) **Ø**Toxic ☐ Skin irritant ☐ Pyrophoric ☐ Shock sensitive ☐ Lachrymator Carcinogenic - suspect ☐ Acidic ☐ Biological □ Radioactive ☐ Caustic ☐ Peroxide □ Other Sample Allocation/Chain of Possession: Organization Name Radium Las Transported By ______ Lab Sample No. ______ Lab Sample No. _____ Date Received _____ Time _____ Comments ____ Inclusive Dates of Possession ___ Organization Name Date Received Received By _____ 21/11 / Lab Sample No. 3/03/01 Transported By _____ Comments ____ Inclusive Dates of Possession ______ Organization Name ______ Received By _____ Date Received ____ Transported By _____ Lab Sample No. Comments ____ ______ Inclusive Dates of Possession _____

For work orders:

ICP QC DATA-PLANT 4

86-02-100 86-02-120 86-02-139 86-02-159

Form II - pg /

Q. C. Report No. 4

INITIAL AND CONTINUING CALIBRATION VERIFICATION3

LAB	NAME RA	dian		CASE NO. PLANT 4								
					sow N	10						
DAT	E <u>3 · 3</u>	1-86			UNIT	s _ug						
Com	pound	Inicia	l Calib	.1 Continuing Calibration ²								
Meta	als:	True Value	Found	IR.	True Value	Found	33	Found	<u> </u>	Mechod		
1.	Aluminum											
2.	Antimony											
3.	Arsenic											
4.	Barium	1.00	0.99	99	1.00	0.99	199	0.98	981	I P		
5.	Beryllium			1			<u> </u>		1	<u> </u>		
6.	Cadmium	1.00	0.98	98	1.00	1.01	101	1.00	100	1 P		
	Calcium					<u> </u>	1	<u> </u>		1		
8.	Chromium	1.00	0.98	98	1.00	1.01	101	0.99	1991	l P		
9.	Cobalt			<u> </u>			<u> </u>			1		
10.	Copper]					!		
11.	Iron	<u> </u>		<u> </u>					1	1		
12.	Lead				11		<u> </u>			1		
13.	Magnesium	<u> </u>								İ		
14.	Manganese	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>			j	<u> </u>		
15.	Mercury	<u> </u>			11					<u> </u>		
16.	Nickel						1			1		
17.	Potassium			<u> </u>								
18.	Selenium				11					.		
19.	Silver	1.00	0.99	199	11 1.00	0.99	199	0.99	1991	IP		
20.	Sodium									1		
21.	Thallium									1		
22.	Tia											
23.	Vanadium			1								
24.	Zinc											
Othe	r:											
					11							
Cyan	ıde							<u> </u>				

¹ Initial Calibration Source 2 Gontinuing Calibration Source 3 Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Usad: P - ICP/Flamm AA; E - Turnace

For work orders

86-02-100

86-02-120

86-02-139

Form II pg 2

Q. C. Report No. 4

INITIAL AND CONTINUING CALIBRATION VERIFICATION³

LAB	NAME	adir	r_			CA.	SE NO	lan	t. 4		
						SO	W NO				
DAI	<u> 3</u>	31-8	6			מט	ITS	Int	1		
Con	pound	1	nitia	1 Calib	. 1	C	ontinuine	Calibr	acion ²		
Met.	als:	True V	alue	Found	I XX	True Val	ue Found	<u>===</u>	Found	<u> </u>	Method 4
	Aluminum										
2.	Ancimony		1								
3.	Arsenic						-				
4.	Barium					1.00	0.99	199			P
5.	Beryllium										
6.	Cadmium					1.00	1.03	103			P
7.	Calcium		}			1					
8.	Chromium					1.00	1.02	102			P
9.	Cobalt		1								
10.	Copper									. (1	
11.	Iron	j	1			1	1				
12.	Lead	<u> </u>				11				11	
13.	Magnesium									İ	
14.	Manganese										
15.	Mercury		*	_							
	Nickel										
17.	Potassium		}					1			
	Selenium										1
19.	Silver		1			1.00	0.99	199			P
	Sodium										<u> </u>
	Thallium	1							-		1
22.	Tin		Ì			11		1			
	Vanadium										
	Zinc							<u> </u>			
	r:						1				
					 			i			
Cyan	ide						- 	1			<u> </u>
											

¹ Initial Calibration Source 2 Continuing Calibration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

For work orders 86-02-100 86-02-120 86-02-129 86-02-159

Form III

Q. C. Report No. 4

BLANKS

LAB NAME	Ragian		CASE	NO.	PLANT 4
DATE	3-31-86		UNIT	s	g/ml.
			Macrix (Vatur)		<i>,</i>
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Interal	11	Construing Calibration		11

	Tededal	II Cons	dandaa C	. 1 4 5 4		11		<del></del>
Preparation	<u>Initial</u> Calibration	Cont	inuing C Blank		<b>74</b> 045-6	ion Blank		
Compound	Blank Value	1	2	3	4	=	l evarac	2
Metals:		11	<u> </u>		<u> </u>	<del>-ii</del>		<u> </u>
l. Aluminum					)  -			
2. Antimony				<del> </del>		<del>-  -</del>		!
3. Arsenic							_	<u> </u>
4. Barium	<.001	10.003	2 203	5.001	<u> </u>	11		<u> </u>
5. Beryllium		11	10.000			Ti		
6. Cadmium	2.002	12002	002	<.008		11		
7. Calcium						<del>-     -     -     -                    </del>		
8. Chromium	<.005	1.005	0.006	<.005		Ti.		1
9. Cobalt						$\exists \exists$		Ì
10. Copper								
ll. Iron								
12. Lead							_	
l3. Magnesium								
14. Mangamese								
15. Mercury								
l6. Nickel								
17. Pocassium						11		
18. Selenium						11		
19. Silver	<.002	10.016	0.014	1,002		<u> li</u>		
20. Sodium								
21. Thallium			<u> </u>			- ! ! _		
22. <u>Tia</u>					<u> </u>	11	:	
23. Vanadium		11			<u> </u>			
24. Zine		1		<u></u>		11		
Other:	-		<u> </u>	<u> </u>	<u> </u>	11	<del></del>	
		11	1	1	1	11		!
Cyanide		11			!	11		

^{*} indicates value is less than 5x cal

188

90

1

1

196

400

1,00

			Form ' Q. C. Report No SPIKE SAMPLE	v aneg	week orden 3.		
	NAME <u>Ra</u> E <u>3 ·</u>		— Hacrix <u>wal</u>	CASE No EPA Sal Lab Sal Unics	o. Plant 4 mple No. mple ID No. 96 ug/ml		'S 4
Compound ZR		Control Limit	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked   Added (SA)	ZR!	
Mec	als:	1					
1.	Aluminum	75-125			<u> </u>	-	
2.	Ancimony	•			1	1	
3.	Arsenic	•					
4.	Barium	•	1,06	0.13	1.00	93	
5.	Beryllium	•		1	)		

<.002

0.022*

0.004 *

0.88

0.92

0.96

Cadmium

Calcium

Cobalt 10. Copper II. Iron 12. Lead

13. Magnesium 14. Manganese 15. Mercury

16. Nickel 17. Potassium 18. Selenium

19. Silver 20. Sodium 21. Thallium

22. <u>Tin</u>

23. Vanadium 24. Zinc Other:

Chromium

Cyanide  1  IR = [(SSR - SR)/SA] x 100

[&]quot;R"- out of control

59

		Q. C. Report N	i // grede	g dapeke 8	6-02-159-00
	•	entre chare	2. <u>4</u>	,	
AR NAME OF		SPIKE SAMPLE		. 04	,
AB NAME Rag	uan_		CASE NO EPA Sai	o. <u>Plant 4</u>	<u></u>
DATE3	-31-86		Lab Sa	mple ID No.86	-02-159-026
		Hatrix <u>wal</u>	w units	ug/ml	<del></del>
	Control Limit	Spiked Sample		Spiked	
compound		Result (SSR)	Kezatt (2K)	Added (SA)	1 48.
Ť.	75-125			1	
Aluminum	75-125				<u>                                     </u>
Antimony	<del></del>		<u> </u>	<u>                                       </u>	<u> </u>
Arsenic		105			<u>                                     </u>
4. Barium	•	1.75	0.095	2.00	83
Seryllium	-	0.024			
Cadmium	<del></del>	0.036	<.002	0.050	72
Calcium					
. Chromium	•	0.18	0.024*	0.20	78
Cobalt		<u> </u>	<u> </u>		<u> </u>
O. Copper		1	1	1	<u> </u>
II. Iron	•		<u> </u>	<u> </u>	<u>!</u>
2. Lead			! !	<u> </u>	<u> </u>
3. Magnesium/	• -	<u></u>	<u> </u>	1	!!
4. Manganese		<u></u>	<u></u>	<u></u>	<u> </u>
5. Mercury	•		1	1	<u>!</u>
6. Nickel	· <del></del>		<u> </u>	<u>!</u>	<u> </u>
7. Potassium	<del></del>	<u> </u>	<u> </u>		
8. Selenium		0 10			<u> </u>
9. Silver	<del></del>	0.18	0.006	0.25	70
20. Sodium	<del></del>		1		<u> </u>
li. Thallium	<del></del>		1	<u></u> _	
22. Tia	<u> </u>	<u> </u>		1	
23. Vanadium	<u> </u>			1	<u> </u>
24. Ziac	•	1			<u> </u>
Other:				<u> </u>	<u>                                      </u>
					!
Cyanide		<u> </u>	<u> </u>	<u>!</u>	11

#### Form VI

Q. C. Report No. 4
DUPLICATES

LAB NAME Qad	1-86		CASE NO. Olar EPA Sample No. Lab Sample ID No.	
		× watu	Units ug/ml	
Compound (	Control Limit'	Sample(S)	Duplicate(D)	P.PD-
Metals: 1. Aluminum				
2. Antimony				1
3. Arsenic			1	1
4. Barium		0.073	0.072-	1.4
5. Bervllium				1
6. Cadmium		2.002	<.002	1 NC
7. Calcium				1
8. Chromium		2.005	1 <.005	NC
9. Cobalt				1
10. Copper				j j
ll. Iron				1
12. Lead				
13. Magnesium				
14. Manganese				
15. Mercury				
16. Nickel				
17. Potassium				
18. Selenium				
19. Silver		0.004	<.002	NC
20. Sodium				
21. Thallium				
22. <u>Tin</u>				
23. Vanadium				
24. Zinc				
Other:				1
				<del>-</del>
Cyanide			1	1

To be added at a later date.

^{*} Out of Control

 $^{^{2}}$  RPD = [(S - D)/((S + D)/2)] x 100

^{1 -} Non calculable RPD due to value(s) less than CRDL

#### For nock order 86-02-159

ne-signt dup of 86-02-159-01E

Form VI

Q. C. Report No. 4

DUFLICATES

DATE 3-31		=x <u>ulaterl</u>	CASE NO. Plane EPA Sample No. Lab Sample ID No Units ug/ml	. 86-02-159
Compount	Control Limit	Sample(S)	Dublicate(D)	P.P.D-
Metals: 1. Aluminum				
2. Antimony				
3. Arsenic		<del></del>	<u>'</u>	<del></del> :
4. Barium		0.073	0.075-	2.7
5. Servilium	<del></del>		1	
6. Cadmium		1 <.002	1 <.002	NC
7. Calcium				!
8. Chronium		1 <.005	0.020*	l vc
9. Cosait		İ		1
10. Copper				i
11. Iron		i		
12. Lead				1
13. Magnesium				
14. Manganese		<u> </u>		<u> </u>
15. Mercury	<del></del>	<u> </u>		
16. Nickel	-	<u> </u>	<u> </u>	11
17. Potassium			1	
18. Selenium			1	
19. Silver		0.004*	0.005*	122
20. Sodium		<del> </del>		<u> </u>
21. Thallium		<u> </u>		
22. <u>Tin</u>		<u> </u>		
23. Vanadium		<del> </del>		<u> </u>
24. Zinc		!	<del></del>	
Otner:		<u> </u>		!
		1	1	-

THE STATE OF THE PROPERTY OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF TH

To be added at a later date.

[▶] Out of Control

 $^{^{2}}$  RPD = [(S - D)/((S + D)/2)] x 100

^{1 -} Non calculable RPD due to value(s) less than CRDL * marcatus value is less than 5x idl

	Form I	<u>III</u>		
<b>Q.</b> (	C. Report N	io. <u>4</u>	_	
	BLANKS			
LIB NAME Radian			CASE NO.	Plant 4
DATE 3-31-86			UNITS	ualal
	Macrix	Watin	,	

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_	Initial	Conti	inuing Ca						
Preparation	Calibration	<del></del>				Preparation Blank			
Compound	Blank Value	1 2 3			4	1 2			
lecals:	1					1) 1			
. Aluminum					-				
. Antimony									
. Arsenic						11			
. Barium					<u> </u>	110.004			
. Beryllium					<u> </u>	11			
. Cadmium				_		11002			
. Calcium					<u> </u>	11			
. Chromium					<u> </u>	10.009			
. Cobalt						11			
O. Copper						1			
1. Iron									
2. Lead									
3. Magnesium									
4. Manganese									
15. Mercury									
16. Nickel									
7. Potassium			,						
18. Selenium					†				
19. Silver						10.010			
20. Sodium									
21. Thallium					1				
22. <u>Tia</u>									
23. Vanadium									
24. <u>Ziac</u>									
Other:									
				İ		11			
Cyanide		1	1	1	1	11			

* indicates value is less than 54 idl

Volatile Organics Pepart 4	DETE	ECTION LIMIT	2 #860E	159
METHOD			1	METHOD DETECTION LIMIT
СОМРОИИД	**	01,-03	-02	-04
Chloromethane		0.08	6.8	20
Bromomethane		1.13	11.8	295
Vinyl Chloride		0.18	1.8	45
Chloroethane		0.52	5.2	130
Metnylene Chloride		0.25	2,5	(25
Trichlorofluoromethane		0.10	1,0	25
l,1-Dichloroethene		M.13	1.2	32.5
l,1-Dichloroethane	<u> </u>	0.07	0.3	17.5
Trans-1,2-Dichloroethene		0.10	1.0	25
Chloroform -	<del></del>	1.75	0.5	12.5
1,2-Dichloroethane	i	0.03	0.3	7.5
l,l,l-Trichloroethane		0.03	0.3	7.5
Carpon Tetrachloride		0.12	1,2	30
Bromodichloromethane		0.10	1,0	25
1,2-Dichloropropane		0.04	0.4	10
Trichloroethene		012	1.2	30
Dibromochloromethane	<u> </u>	0.09	0.9	1 225
2-Chloroethylvinyl Ether		0.13	1,3	1 325
Brcmoform	T	0.20	a.D	150
Tetrachloroethene	i	0.20	3.0	150
Chlorobenzene	·i	0,25	2.5	63.5
,3-Dichlorobenzene	<del></del>	0.32	3.2	90
,2-Dichlorobenzene		0.15	1.5	37.5
1,4-Dichlorobenzene		0.74	2.4	60

DETECTION LIMITS

VOLATILE ORGANICS

METHOD

1130C131E4	DETECTION LIMIT									
	1) ED-410-	0.3	0.2		0.0	6.3 15	JC 7.0	26 p.0		
	COMPOUND	BENZENE	TOLUENE	ETHYLBENZENE	CHLOROBENZENE	1,4-DICHLOROBEWZENE	1,3-DICHLOROBENZENE	1,2-DICHLOROBENZENE		

#### **VOA RESULTS**

LAB # SYSTEM &			
CLIENT NAME			
SAMPLE ID			
601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2/27/26 TAYST: JS/ INSTRUMENT&O.
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	NO
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	<i>\</i>
Chloroform		0-Xylene	
1.2-Dichlorethane 1.1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans-1.3-Dichloropropene Trichloroethene Dibromochloromethane 1.1.2-Trichlorethane cis-1.3-Dichloropropene 2-Chloroethylvinyl ether Bromoform 1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene 1.4-Dichlorobenzene		SURROGATE RECOVERIES:  601  Bromochloromethane 2-Bromo-1-Chloropropane 1,4-Dichlorobutane 602 a,a,a,-Trifluorotoluene	

#### VOA RESULTS

LAB # / SAC	in Bunk		
CLIENT NAME			
SAMPLE ID			
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 3/37/56 ANALYST: C INSTRUMENT ()
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	NO
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethen	e	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane	<u> </u>		
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane		1	
1.2-Dichloropropane		SURROGATE RECOVERIES:	
Trans-1.3-Dichloropropene		601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropropane	
1.1.2-Trichlorethane		l,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	luene
Bromoform		4	
1.1.2.2-Tetrachlorethan		4	
<u>Tetrachlorethylene</u>		4	
Chlorobenzene	<del></del>	+	
1.3-Dichlorobenzene		4	
1.2-Dichlorobenzene		-	
1.4-Dichlorobenzene		-	

CONCOUNTED DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION DE LA COLUMNATION D

LAB # 54576	BLAKE			
CLIENT NAME				
SAMPLE ID				
	*******		******	*===
EPA METHOD 601	DATE: >/Z ANALYST: ( INSTRUMEN	ر. ک	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRA (ug/L)		COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Jo	Benzene	
Bromomethane		$T_{-}$	Toluene	
Vinyl Chloride		$\Gamma$	Ethyl benzene	
Chloroethane		$T^{-}$	Chlorobenzene	
Methylene chloride		$T^{-}$	1,4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RE OVERI	ES:
Trans-1.3-Dichloropropens			601	
Trichloroethene	-77		Bromochloromethane	
Dibromochloromethane			2-Brome-1-Chloropr	opane
1.1.2-Trichlorethane			1,4-Dichlorobutane	
cis-1,3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	luene
Bromoform			-	
1.1.2.2-Tetrachlorethane			1	
Tetrachlorethylene				
Chlorobenzene			1	
1.3-Dichlorobenzene			Ţ	
1.2-Dichlorobenzene			_	
1.4-Dichlorobenzene			_	
1.4-Dichtoropenzene				

LAB # VI ATTE	7 BUNK		
CLIENT NAME			
SAMPLE ID			
******		********	
EPA METHOD	DATE: 2/26/36	EPA METHOD	DATE:
601	ANALYST: C.	602	ANALYST:
	ANALYST: INSTRUMENT:	Paris	INSTRUMENT:
			<del></del>
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)	··	(ug/L)
Chloromethane		Benzene	
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1,2-Dichloroethe	ne	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane		]	
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloroprop	ene	601	
Trichloroethene		Bromochloromethan	
Dibromochloromethane		2-Brome-1-Chlorop	
1.1.2-Trichlorethane		1,4-Dichlorobutan	e
cis-1.3-Dichloropropen		602	
2-Chloroethylvinyl eth	er	a,a,a,-Trifluorot	oluene
Bromoform		+	
1.1.2.2-Tetrachloretha		4	
<u>Tetrachlorethylene</u>		4	
Chlorobenzene		4	
1.3-Dichlorobenzene		4	
1.2-Dichlorobenzene		-	
1.4-Dichlorobenzene	<del></del>	-	

LAB #					
CLIENT NAME					
SAMPLE ID					
*********			/ /		
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 35/76 ANALYST: 556 INSTRUMENT:		
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)		
Chloromethane		Benzene	مام		
Bromomethane		Toluene			
Vinyl Chloride		Ethyl benzene			
Chloroethane		Chlorobenzene			
Methylene chloride		1.4-Dichlorobenzene			
Trichlorofluromethane		1.3-Dichlorobenzene			
1.1-Dichlorethene		1.2-Dichlorobenzene			
1.1-Dichlorethane		P-Xylene			
Trans-1.2-Dichloroeth	ene	M-Xylene			
Chloroform		0-Xylene			
1 0 D: 11 -1					
1.1.1-Trichlorethane					
Carbon tetrachloride					
Bromodichlormethane		<u> </u>			
1.2-Dichloropropane		SURROGATE RECOVERIES:			
Trans-1.3-Dichloropro	pene	601			
Trichloroethene		Browochloromethane	·		
Dibromochloromethane		2-Bromo-1-Chloropr	opane		
1.1.2-Trichlorethane		1,4-Dichlorobutane	· <del></del>		
cis-1.3-Dichloroprope	ne	602			
2-Chloroethylvinyl et	her	a,a,a,-Trifluoroto	luene		
Bromoform		<b>」</b> .			
1.1.2.2-Tetrachloreth	ane	]			
Tetrachlorethylene					
Chlorobenzene					
1.3-Djchlorobenzene					
1.2-Dichlorobenzene					
1.4-Dichlorobenzene					
!					
		(			

	BLANK		
CLIENT NAME			
SAMPLE ID			
**************	***********	**************	**********
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 3 5/2L ANALYST: DAV INSTRUMENT: O.
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	NO
Bromomethane		Toluene	, 
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1,4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	·
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroeth	ene	M-Xylene	
Chloroform		O-Xylene	
1.2-Dichlorethane			-
1.1.1-Trichlorethane	·		
Carbon tetrachloride			
Bromodichlormethane	<del></del>		
1.2-Dichloropropane		SURROGATE RECOVER	RIES:
Trans-1.3-Dichloropro	pene	601	
Trichloroethene		Bromochloromethan	ne
Dibromochloromethane		2-Brome-1-Chlorop	ropane
1.1.2-Trichlorethane		1,4-Dichlorobutan	ie
cis-1.3-Dichloroprope			
2-Chloroethylvinyl et			oluene
Bromoform		<u>.</u>	
1.1.2.2-Tetrachloreth	ane	<del>-</del>	
Tetrachlorethylene		_	
Chlorobenzene		<del>-</del>	
1.3-Dichlorobenzene		=	
1.2-Dichlorobenzene			
1.4-Dichlorobenzene			

## DAILY QUALITY CONTROL RAS GC LAB

DATE:	3 2 86		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Z Recover
		INSTRUMENT		D	D		
TEST METHOD	COMPOUND			*******			*****
EPA 601	EPA WP 483 CO	i		· ·		-	
	AND WP 781 CO		9.2		-		
	Methylene Chlo						
	1.1-Dichloroe		10.0				
	Trans-1.2-Dicl	LOTOELNYIERE	5.4 43.0	<del> </del>			
	1.2-Dichloroe		27.6			<del></del>	
	1.1.1-Trichlo		14.3			<del></del>	
	Carbon Tetraci		20.0				
	Bromodichloron	- 1	7.9				
	1.2-Dichlorop		8.0				
	Trichloroethe		22.2				
	Dibromochloro		16.7				
	Bromoform		9.9				
1	1.1.2.2-Tetrac	hloroethane	10.0				
	Tetrachloroet		6.2				
	Chlorobenzene		8,2				
EPA 602	EPA - WP 879 (						
	Benzene		30.7	34.3	117		
	Toluene		4.1	4.5	110		
	Ethylbenzene		11.5	13.3	107		
	P-Xylene		19.1	71.4	11.2		
	M-Xylene		42.6	50.9	100		
	0-Xvlene		10.6	9.1	9(5		
EPA 608			(ug/g)				
	Aroclor 1242		58.7				
	Aroclor 1260		56.8				

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	2/27/86	SPIKED VALUE (ug/L)	ANA	LYZED VA	ALUE	,	Z RECOVERY	<del></del>
	INSTRUMENT	(dg/L/	D	(dg/ b)		D		
TEST METHOD	COMPOUND							ž.
EPA 601	Chloromethane	16.2			-			
	Chloroethane	28.1						
	Methylene Chloride	26.3						
į	1,1-Dichloroethylene	45.0			<del></del>			
	Trans-1,2-Dichloroethylene	12.5						
	Carbon Tetrachloride	60.0						
	Dichlorobromomethane	40.0						
	1,1,2-Trichloroethane	33.8						
EPA 602	· <u>-</u>							
	Benzene	30.7	40.5	35.8		135	117	
]	Toluene	4.1	4.9	4.10		150	113	
	Ethylbenzene	11.5	13.2	11.9		114	104	
	P-Xylene	19.1	23.3	21.2		122	111	
	M-Xylene	42.6	78.0	52.3		183	123	
	O-Xylene	10.6	9.6	9.0		91	85	
EPA 608		(ug/g)		(ug/g)				-
	Aroclor 1242	58.7						
	Aroclor 1260	56.8						

THE TAXABLE STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD

## DAILY QUALITY CONTAIL

Ely de Mb 483 cmc 7 + ely or Mb 181 cm 3

2/26/26

2 (26 13 2		G	. 6
	CENTIFIED VALUE (MG/L)	ANALYZED WALUE	Sie
Chloromethane			-
Bromomethane			
Vinvl chloride			
Chloroethane			
Methylene chloride	9.2	9.5	103
Trichlorofluoromethane			
l,l-Dichloroethene	10.0	9.1	91
1.1-Dichloroethane			
trans-1.2-Dichloroethene	5,4		
Chloroform	43.0	<i>6</i> 1.7	143
1,2-Dichloroethane	27.6	50.3	81
1,1,1-Trichloroethane	14.3	15.4	108
Carbon tetrachloride	200	21.4	107
Bromodichloromethane	7.9	8.8	112
1,2-Dichloropropane	8.0	7.6	95
Trichloroethene	22.2	22.7	102 -
Dibromochloromethane	16.7	14.2	95
1,1,2-Trichloroethane cis-1,3-Dichloropropene			
2-Chloroethylvinyl ether			
Bromoform .	9.9	9.3	99
1.1.2.2-Tetrachloroethane	10.0	<del>~ · . ·</del>	
Tetrachloroethylene	6.7		
Chlorobenzene	8.7	8.1	99
1,3-Dichlorobenzene	·		
1,2-Dichlorobenzene			
1,4-Dichlorobenzene			

#### DUPLICATE ANALYSIS

EPA METHOD 602
VOLATILE ORGANICS

SAMPLE # 800.0159-030 (800.193)

COMPOUND	Run#1	RUN#2	RPD
Benzene			
Toluene	0.84	$\mathcal{K}_{0}$	V.C
Ethyl benzene			
1,4-Dichlorobenzene			
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
O-Xylene			
M-Xylene			
P-Xylene			
Chlorobenzene			

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$ 

RPD= Relative Percent Difference

*- There is a tep lauge what was inthe first run but not in the second.

RADIAN 8402159-05A (840194)

#### DUPLICATE ANALYSIS

		1				
EPA Method 601					!	
Volatile Organics						
COMPOUND	RUN#1	RUN#2	RPD	RUN#1	RUN#2	RPD
Chloromethane						
Bromomethane					1	
Vinyl chloride				-		
Chloroethane						
Methylene chloride						
Trichlorofluoromethane						
1,1-Dichloroethene						
1,1-Dichloroethane						
trans-1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane				<del></del>		
1,1,1-Trichloroethane						
Carbon Tetrachloride	-					
Bromodichloroemethane						
1,2-Dichloropropane						
Trichloroethene						
Dibromochloromethane						
1,1,2-Trichloroethane						
cis-1,2-Dichloropropene						
2-Chloroethylvinyl ether						
Bromoform						
1,1,2,2-Tetrachloreothane						
Tetrachlorethylene	6.69	C1.(C9)	115		-	
Chlorobenzene						
1,3-Dichlorobenzene						
1,2-Dichlorobenzene						
1,4-Dichlorobenzene						

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$ 

RPD= Relative Percent Difference



LAB #:8602159-CIA
SAMPLE ID: SYCCIPO
DATE: 2-210-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 119
2-BROMO-1-CHLOROPROPANE: // /
602/8020
a,a,a-TRIFLUOROTOLUENE:



TOTAL TELEVISION PROCESSES SOSSOSSOS RESERVAS MILIEUS SOSSOS

LAB #:3000154-CDA
SAMPLE ID: 340191
DATE: 2-210-86
INSTRUMENT: G
601/8010
BROMOCHLOROMETHANE: 18
2-BROMO-1-CHLOROPROPANE: 133
602/8020
a a a-TRIFLUOROTOLUENE:



LAB #: 81002159-13A
SAMPLE ID: 860192
DATE: 8-20-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 15
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: 8002159-CUA
sample id:860193
DATE: 2-3/0-80
INSTRUMENT: G
601/8010
BROMOCHLOROMETHANE: 101
2-BROMO-1-CHLOROPROPANE: 122
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

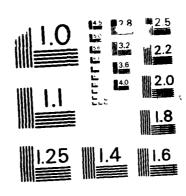


LAB #: 3602159-05A
SAMPLE ID: 800194
DATE: 2-26-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 111, 94
2-BROMO-1-CHLOROPROPANE: 11(C) (C)
602/8020
a,a.a-TRIFLUOROTOLUENE:

LAB #: 860215Q-CCA
SAMPLE ID: FIELD BLACK
DATE: 2-20-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 112
2-BROMO-1-CHLOROPROPANE: 118
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: DUC 2159-17A
SAMPLE ID: TRIPBLANK
DATE: 2-20-80
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 1
2-BRCMO-1-CHLOROPROPANE: 174
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

INSTALLATION RESTORATION PROGRAM PHASE 2
CONFIRMATION QUANTIFICATION STAG (U) RADIAN CORP
AUSTIN TX DEC 87 F33615-83-D-4881 3/6 AD-A190 446 F/G 24/7 UNCLASSIFIED



CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR

MICROCOPY RESOLUTION TEST CHAR?

LAB #: 202159-01C
SAMPLE ID: SUCION
DATE: 2-27-86
INSTRUMENT:
601/0010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 109

LAB #: XLCCQ159-0QC.
SAMPLE ID: 800191
DATE: 2-27-80
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: 93

LAB #: 8009159-030
sample id: 800198
DATE: 2-27-80
INSTRUMENT: D
601/8010
0017 8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 120



LAB #:8000159-040
SAMPLE ID: 800193
DATE: 2-27-86
INSTRUMENT:
<del>.</del>
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:



LAB #: 8600150-05C
SAMPLE ID: 800194
DATE: 2-07-80
INSTRUMENT:
÷
(01/0010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: 112



LAB #: 3002150-NOB
SAMPLE ID: FIELD BLANK
DATE: 2-27-86
INSTRUMENT:
(01/00)
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: 8400159-CHA
SAMPLE ID: TRIP BLANK
DATE: 3-5-80
INSTRUMENT:
<del>.</del>
601/9010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: 92

# KADIA CORPORATION SAC

FOA 625, 860190, 860191, 760192, 860194 (2) (1) (2)

CHAIN OF CUSTODY RECORD

	Field Sample No.	
Company Sampled Address GENER	AL DYNAMICS, FT. WOR	TH, PLANTY
Sample Point DescriptionGROUN	D WATER	·
Stream Characteristics:		
Temperature	Flow	pH
Visual Observations/Comments		
Collector's Name W- JOHNSON	Date/Time Samp	pled 2/25/86
Amount of Sample Collected 7 Quantum 7 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum 2 Quantum	her liter bottles	
Sample Description	·	
Sample Description	10°C ☑ Other <u>4°C</u>	
4 Couries No more comple quellable		ala . 🖂 Bisaand waxaa da antisaa
Caution · No more sample available		
Other Instructions · Special Handling	Hazards	
860 191 - Partial Bapte Volume		
		<del></del>
Hazardous sample (see below)	□ Non-hazardous sample	
<b>⊠</b> Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
☐ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	Carcinogenic ⋅ suspect
□ Caustic	☐ Peroxide	☐ Radioactive
Other		
Sample Allocation/Chain of Possessio	n:	
Organization Name	CORP.	
Received By	Date Receive	d Time
Received By	Lab Sample No.	6.72 1
		<del></del>
Inclusive Dates of Possession2 !	25/86	
Organization Name RAS - Sec	cto	
Received By Wanda Poron	Date Receive	d 2486 Time 10'00
Transported By Fel X 76477	3273 Lab Sample No.	
Comments		
Inclusiv Dates of Possession		
Organization Name		
Received By		d Time
Transported By	Lab Sample No	
Comments	·	
Inclusive Dates of Possession		

Sample Point Description Stream Characteristics: Temperature Visual Observations/Comr	## 601.860195, 860196, 820197, 860196, 820197, 860196, 820197, 860196, 820197, 860196, 820197, 860195, 820196, 820197, 820195, 820196, 820197, 8600 6600 6600 6600 6600 6600 6600 660	pH	
Sample Point Description Stream Characteristics: Temperature Visual Observations/Comr	Flow	pH	
Stream Characteristics: Temperature Visual Observations/Comr	Flow		
Temperature Visual Observations/Comr	nents		
Visual Observations/Comr	nents		
Collector's Name Alexander Amount of Sample Collector Sample Description	od 24 VVAS, 11 mason java, 5 500m	2/21/50	
Amount of Sample Collectors Sample Description	ed 24 VVAS, 11 mason jacs, 5 500m	2/10/10	
Sample Description	1024 WAS, II mason jas, 5 50 m	1 -1	
Sample Description	arm of the	i piusti c	
Store at:	5°C D = 10°C POther 4°C	<del></del>	
1			
Caution · No more samp	le available 🛚 Return unused portion of sample 🕻	Discard unused portions	
Other Instructions - Specia	l Handling · Hazards		
₩/Hazardous sample (see	below) □ Non-hazardo	us sample	
<b></b> ▼Toxic	□ Skin irritant	□ Flammable (FP<	
☐ Pyrophoric	□ Lachrymator	☐ Shock sensitive	
☐ Acidic	☐ Biological	© Carcinogenic ⋅ sus	
□ Caustic	□ Peroxide	☐ Radioactive	
☐ Other			
Sample Allocation/Chain of	of Possession:		
Organization Name	Date Received	<del></del>	
Received By	Date Received	Time	
Comments/	ion 2-26-86		
	ion L- 26-36		
Organization Name	)		
Organization Name	Date Received 3	2-37-86 Time 1000	
Organization Name Received By Transported By	Date Received 2	2-37-86 Time 1000	
Organization Name Received By Transported By Comments	Date Received 2 Lab Sample No. Suc.  MEK TO GC LUL- P	2-37-86 Time 1500 2,176 2,1	
Organization Name Received By Transported By Comments	Date Received 2	2-37-86 Time 1500 2,176 2,1	
Organization Name  Received By  Transported By  Comments  Inclusive Dates of Possess  Organization Name	Date Received  Lab Sample No. Soc.  MEK to GC lal-P	3786 Time 1000	
Organization Name Received By Transported By Comments Inclusive Dates of Possess Organization Name Received By	Date Received  Lab Sample No.  MEK TO GC lul- P  ion  Date Received	7.37 % Time 1.00 2.176 2.1	
Organization Name Received By Transported By Comments Inclusive Dates of Possess Organization Name Received By	Date Received  Lab Sample No. Soc.  MEK to GC lal-P	7.37 % Time 1000	
Organization Name Received By Transported By Comments Inclusive Dates of Possess Organization Name Received By Transported By	Date Received  Lab Sample No.  MEK TO GC lul- P  ion  Date Received	7.37% Time 1000 2.176 2.176 Time	

Volatile Organics

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GC QC DETECTION LIMITS #:86072176

Report 3		# 1860	12170
метнор			METHOD DETECTION LIMIT
COMPOUND	-01,-02 -04-05	-03	
Chloromethane	0.58	0.8	
Bromomethane	1.18	11.8	
Vinyl Chloride	0.18	1.8	
Chloroethane	0.52	5点_	1
Methylene Chloride	0.25	ي ي ي	
Trichlorofluoromethane	0.10	1.0	
l,1-Dichloroethene	0.13	1.3	
l,1-Dichloroethane	0.07	0,7	
Trans-1,2-Dichloroethene	0.10	1.0	
Chloroform	C.C5	0.5	
1,2-Dichloroethane	0.03	0.3	
l,l,l-Trichloroethane	CC3	0.3	
Carbon Tetrachloride	0.12	2	
Bromodichloromethane	0.10	1,0	
l,2-Dichloropropane	0,04	0.4	
Trichloroethene	0.13	1.2	
Dibromochloromethane	6.09	0.9	
2-Chloroethylvinyl Ether	0.13	1,3	
Bromoform	0.80	<b>a</b> .0	
Tetrachloroethene	63	0.3	
Chlorobenzene	0,25	2.5	
1,3-Dichlorobenzene	C132	3.9	
1,2-Dichlorobenzene	0.15	1.5	
1,4-Dichlorobenzene	0.24	2.4	

DETECTION LIMITS

VOLATILE ORGANICS

METHOD

118008F16													
<del>1</del>	DETECTION LIMIT												
	DETEC	-556					1	}		0,3	Q. Q	0.2	
		LÖÜ	20	3.0	2.0	2.0	3.0	4.0	4.0				
	(	-05030- -05030-	080	OED	0,30	DE O	රු?	Ch.C	O'HO	)	)	١	
	COMPOUND		BENZENE	TOLUENE	ETHYLBENZENE	CHLOROBENZENE	1,4-DICHLOROBENZENE	1,3-DICHLOROBFWZENE	1,2-DICHLOROBENZENE	M- XYLENE	P-XYLENE	O-XXCNE	

LAB # SYSTAM	BLANK		
CLIENT NAME			
SAMPLE ID			
	**********		
EPA METHOD 601	DATE: > /> /zl ANALYST: JSC INSTRUMENT: Ju	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	No	Benzene	
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	<u></u>
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe	ne	M-Xylene	
Chloroform		O-Xylene	
1.2-Dichlorethane			•
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane		]	
1.2-Dichloropropage		SURROGATE RECOVER	RIES:
Trans-1.3-Dichloroprop	ene	601	
Trichloroethene	17	Browochloromethan	ie
Dibromochloromethane		2-Brome-1-Chlorop	ropane
1.1.2-Trichlorethane		1,4-Dichlorobutan	
cis-1.3-Dichloropropen	e	602	
2-Chloroethylvinyl eth		a,a,a,-Trifluorot	oluene
Bromoform		}	
1.1.2.2-Tetrachloretha	ne	_	
Tetrachlorethylene		]	
Chlorobenzene			
1.3-Dichlorobenzene		1	
1.2-Dichlorobenzene	<u> </u>	_!	
1.4-Dichlorobenzene			

DATE: 2/27 36 ANALYST: C INSTRUMENT: Ha	EPA METHOD 602	DATE:		
DATE: 2/27 36		DATE:		
DATE: 2/27 36		DATE:		
43545-505-0-4		DATE:		
ANALYST: C INSTRUMENT: Ha	602			
INSTRUMENT Ha		ANALYST:		
	ein _	INSTRUMENT:		
CONCENTRATION	COMPOUND	CONCENTRATION		
(ug/L)		(ug/L)		
10	Benzene			
• 1				
·				
e				
	SURROGATE RECOVERIES:			
ne	601			
	Bromochloromethane	·		
<u> </u>	2-Bromo-1-Chloropropane			
	l,4-Dichlorobutane	·		
	602			
<u>r</u>	a,a,a,-Trifluoroto	oluene		
<del></del>	†			
e	1			
<del></del>	•			
<del></del>	-			
<del></del>	1			
<u> </u>	+			
	e	Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene 0-Xylene  SURROGATE RECOVERT  601 Bromochloromethane 2-Bromo-1-Chlorope 1,4-Dichlorobutane 602 a,a,a,-Trifluoroto		

LAB # SYSTEM (	3UNK					
CLIENT NAME						
SAMPLE ID						
		*******	*******			
EPA METROD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2/28/26 ANALYST: 356 INSTRUMENT OF			
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)			
Chloromethane	1	Benzene	No			
Bromomethane		Toluene				
Vinyl Chloride		Ethyl benzene				
Chloroethane		Chlorobenzene				
Methylene chloride		1.4-Dichlorobenzene				
Trichlorofluromethane		1.3-Dichlorobenzene				
1.1-Dichlorethene	<del> </del>	1.2-Dichlorobenzene				
1.1-Dichlorethane		P-Xylene				
Trans-1.2-Dichloroethe	ne	M-Xylene				
Chloroform		0-Xylene	<u> </u>			
1.2-Dichlorethane						
1.1.1-Trichlorethane						
Carbon tetrachloride	· <del>-</del>					
Bromodichlormethane	· · · · · · · · · · · · · · · · · · ·	1				
1.2-Dichloropropane		SURROGATE RECOVERIES:				
Trans-1.3-Dichloroprop	ene	601				
Trichloroethene		Browochloromethane				
Dibromochloromethane		2-Brome-1-Chloropr	opane			
1.1.2-Trichlorethane		l,4-)ichlorobutane				
cis-1.3-Dichloropropen	e	602				
2-Chloroethylvinyl eth	er	a,a,a,-Trifluoroto	luene			
Bromoform		े र्न				
1.1.2.2-Tetrachloretha		1 <del>1</del>				
Tetrachlorethylene		1				
Chlorobenzene		1				
1.3-Dichlorobenzene		4				
1.2-Dichlorobenzene	. <del></del>	.! -1				
1.4-Dichlorobenzene		-				

LAB # 1 CHEENT	BUNK		
CLIENT NAME			
SAMPLE ID			
**********	********	医哈特特氏征 医哈特氏征 医克特氏征 医克特氏征 医克特氏征 医克特氏征 医克特氏征 医克特氏征 医克特氏征 医克特氏征 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性 医多种性	=======================================
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2(26) ANALYST: CO INSTRUMENT: OI
СОМРОИНД	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	NO
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlerobenzene	
Methylene chloride		1,4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	<b>r</b>
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethen	e	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane		_	
Carbon tetrachloride	-		
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroprope	ne	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane	<del> </del>	2-Brome-1-Chloropr	
1.1.2-Trichlorethane		1,4-Dichlorobutane	·
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ethe	r	a,a,a,-Trifluoroto	luene
Bromoform		<del>-</del>	
1.1.2.2-Tetrachlorethan		<del>,</del>	
Tetrachlorethylene		4	
Chlorobenzene		4	
1.3-Dichlorobenzene		-	
1.2-Dichlorobenzene		<u> </u>	
1.4-Dichlerobenzene	<del></del>	-	
1			

THE THE TOTAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE

LAB #System	BUNK					
CLIENT NAME						
SAMPLE ID						
*************	*========	**********				
EPA METHOD	DATE:	EPA METHOD	DATE: 2/>7/84			
601	ANALYST:	602	ANALYST:			
	INSTRUMENT:		INSTRUMENT OL			
<del></del>	· · · · · · · · · · · · · · · · · · ·					
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION			
	(ug/L)		(ug/L)			
Chloromethane		Benzene	NP			
Bromomethane		Toluene				
Vinyl Chloride		Ethyl benzene				
Chloroethane		Chlorobenzene				
Methylene chloride		1.4-Dichlorobenzene				
Trichlorofluromethane		1.3-Dichlorobenzene				
1.1-Dichlorethene		1.2-Dichlorobenzene				
1.1-Dichlorethane		P-Xylene	N/			
Trans-1.2-Dichloroethen		M-Xylene	V			
Chloroform		0-Xylene				
1.2-Dichlorethane						
1.1.1-Trichlorethane		]				
Carbon tetrachloride	-					
Bromodichlormethane						
1.2-Dichloropropane		SURROGATE RECOVERI	ES:			
Trans-1.3-Dichloroprope	ne	601				
Trichloroethene		Browochloromethane				
Dibromochloromethane		2-Bromo-1-Chloropr				
1.1.2-Trichlorethane		l,4-Dichlorobutane	<del></del>			
cis-1.3-Dichloropropene		602				
2-Chloroethylvinyl ethe	<u> </u>	a,a,a,-Trifluoroto	luene			
Bromoform		-				
1.1.2.2-Tetrachlorethan		+				
Tetrachlorethylene		-				
Chlorobenzene		4				
1.3-Dichlorobenzene		4				
1.2-Dichlorobenzene		4				
1.4-Dichlorobenzene	<del></del>	.				
, -		{				
}						
		1				
I .		1				

*********		
*********		•
		*********
DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 2/37/35 ANALYST: C INSTRUMENTA() ()
CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
	Benzene	$\sim n$
	Toluene	
	Ethyl benzene	
	Chlorobenzene	
	P-Xylene	
	M-Xylene	
	O-Xylene	
	SURROGATE RECOVERIE  601  Browochloromethane 2-Browo-1-Chloropro 1,4-Dichlorobutane  602 a,a,a,-Trifluorotol	pane
	INSTRUMENT: CONCENTRATION (ug/L)	CONCENTRATION (ug/L)  Benzene Toluene Ethyl benzene Chlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene P-Xylene M-Xylene O-Xylene  SURROGATE RECOVERIE 601 Bromochloromethane 2-Bromo-1-Chloropro 1,4-Dichlorobutane 602 a,a,a,-Trifluorotol

#### SPIKE RECOVERY

15098	76 - O	YA		>/27/2L	-		
5	2710			G			
SSR	SR	SA	ZR	SSR	SR	SA	ZR.
7.8		9.2	85				
6.4		100	64				
5,3		514	98				
53.7		43.0					
21,1		1					
13.9		T	97				
18.5			92				
		7.9					
7.7		8.0	96				
21.6	0.13	23.2					
		16.7	87				
					Ì		
					ĺ		
9.4		9,9	95		1		
e		140					
	0,13				i		
8.2			100			1	
			•				
					1		
	7.8 5.3 5.3 5.3.7 21.1 13.9 18.5 7.7 31.6 14.5	Amy 8 60188 SSR SR 7.8 6.4 6.4 13.9 18.5 7.8 7.7 31.6 0.13 14.5	SSR SR SA  SSR SR SA  7.8 9.2  6.4 100  5.3 5.4  5.3 5.4  5.3 5.4  5.4  5.3 12  14.3 14.3  18.5 7.1  7.7 8.0  7.1 8.0  7.1 8.0  7.1 8.0  7.1 16.7  9.4 9.9  1e 103	SSR SR SA ZR  SSR SR SA ZR  7.8 9.2 85  6.4 100 64  5.3 5.4 98  53.7 43.0 125  21.1 27.6 76  13.9 14.3 97  18.5 7.1 99  7.7 8.0 96  31.6 0,13 20.2 97  14.5 16.7 87  9.4 9.9 95  1e 103	SSR SR SA ZR SSR  7.8 9.2 85  6.4 100 64  5.3 5.4 98  53.7 43.0 125  21.1 27.1 76  13.9 14.3 97  18.5 21.0 92  7.8 7.1 99  7.7 8.0 96  21.6 0,13 22.2 97  14.5 16.7 87	SSR SR SA ZR SSR SR  T.8 9.2 85  6.4 100 64  5.3 5.4 98  53.7 43.0 125  21.1 27.6 76  13.9 14.3 97  18.5 21.0 92  7.8 7.9 98  7.7 87  14.5 16.7 87  14.5 16.7 87	SSR SR SA ZR SSR SR SA  7.8 9.2 85  6.4 100 64  5.3 5.4 98  5.3 5.4 98  5.3 7 43.0 125  21.1 27.1 76  13.9 14.3 97  18.5 21.0 92  7.8 7.1 99  7.7 8.0 96  21.6 0.13 22.2 97  14.5 16.7 87

SSR = Spiked Sample Result

SR = Sample Result

6 206

SA = Spike Added

THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O

#### DUPLICATE ANALYSIS

	EPA METHOD 602  VOLATILE ORGANICS  SAMPLE # SUCCIFIC-ON  UNITS UGIL (SICO)	C 75)	-	÷	
	COMPOUND	RUN#1	RUN#2	RPD	
K.	Benzene	0.78	0.75	39	
• -	Toluene				
	Ethyl benzene				
	1,4-Dichlorobenzene				
	1,3-Dichlorobenzene				
	1,2-Dichlorobenzene				
	0-Xylene				
	M-Xylene				
	P-Xylene				
	Chlorobenzene				

 $RPD = \frac{|R_1-R_2|}{(R_1+R_2)/2} \times 100$ 

RPD= Relative Percent Difference * - ald not confirm

# DAILY QUALITY CONTROL RAS GC LAB

DATE: 2/27/86		SPIKED VALUE (ug/L)	ANALYZED VALUE (ug/L)		Z RECOVERY				
}		INSTRUMENT		D			D		
	• *	ANALYST							
TEST METHOD	COMPOUN	D						-	
EPA 601	Chloromethane		16.2			÷			
	Chloroethane		28.1						
	Methylene Chlorid	e	26.3						
	1,1-Dichloroethyl	ene	45.0						
	Trans-1,2-Dichlor	oethylene	12.5						
	Carbon Tetrachlor	ide	60.0					ļ 	
	Dichlorobromometh	ane	40.0						
	1,1,2-Trichloroet	hane	33.8						
EPA 602	Benzene		30.7	40.5	35.8		135	117	
	Toluene		4.1	4,9	4.10		150	113	
	Ethylbenzene		11.5	13.2	11.9		114	104	
	P-Xvlene		19.1	23.3	21.2		122	111	
	M-Xylene		42.6	78.0	52.3		183	123	
	O-Xylene		10.6	9.6	9.0		91	85	
EPA 608			(ug/g)		(ug/g)				
	Aroclor 1242	• -	58.7						
	Aroclor 1260		56.8	L					

## DAILY QUALITY CONTROL

## EV17 42 WP 483 cmc 2 + 414 Oc WP 781 cm 7

2/27/26		G	· 6
<b>'</b>	CENTIFIED VALUE (MJ/L)	ANALYZED UALUE	2 nec
Chloromethane			
Bromomethane			
Vinvl chloride			
Chloroethane			
Methylene chloride	9.2	8.8	96
Trichlorofluoromethane			
l, l-Dichloroethene	10.0	7.0	70
1,1-Dichloroethane			
trans-1,2-Dichloroethene	5.4	8	
Chloroform	43.0	57.6	134
1,2-Dichloroethane	27.6	21.8	79
l,l,l-Trichloroethane	14.3	13.6	95
Carbon tetrachloride	200	167	83
Bromodichloromethane	7.9	8.5	107
1,2-Dichloropropane	8.0	7.6	95
Trichloroethene	22.2	21.1	95 -
Dibromochloromethane	16.7	13.6	182 -
1,1,2-Trichloroethane			<del> </del>
cis-1,3-Dichloropropene			
2-Chloroethylvinyl ether	. 9.9	9.5	95
Bromoform	10.0	- <u>/:-</u>	
1.1.2.2-Tetrachloroethane Tetrachloroethylene	6.2		
Chlorobenzene	8.7	7.7	94
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
1,4-Dichlorobenzene			

23.

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	0/28/16		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Z Recovery
	INS	STRUMENT _		D			
TEST METHOD	COMPOUND			•=======   		*********	
EPA 601	EPA WP 483 CONC.			G	6	*	
	Methylene Chlorid		9.2	10.6	115		
	1.1-Dichloroethyl		10.0	8.2	82		
	Trans-1.2-Dichlor						
	Chloroform		43.0	50.2	117		
	1.2-Dichloroethar	1e	27.6	43,7	123		
	1.1.1-Trichloreth		14.3	١٢٠٦	110		
	Carbon Tetrachlor	ide	20.0	19.3	99		
	Bromodichlorometh	nane	7.9	10,9	133		
	1.2-Dichloroprops	ine	8.0	8.6	107		
	Trichloroethene		22.2	24.1	103		
	Dibromochlorometh	ane -	16.7	13.9	113		
	Bromoform	<del></del>	9.9	9.3	94		
	1.1.2.2-Tetrachlo	roethane	10.0				
	Tetrachloroethene	2	6.2				
	Chlorobenzene		8.2	9.8	119		
EPA 602	EPA - WP 879 CONC	2.1					
	Benzene		30.7	33.6	139		
	Toluene		4.1	3.7	91		
	Ethylbenzene	····	11.5	104	75		
	P-Xylene		19.1	18.9	54		
	M-Xvlene		42.6	47.7	100		
	0-Xylene		10.6	77	43		
EPA 608	A110/6		(ug/g)				
	Aroclor 1242	<del></del>	58.7		-		<del></del>
	Aroclor 1260		56.8	1	L	!	

LAB #: 80001700-01A
sample id: <u>800195</u>
DATE: 2-27-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 4
2-BROMO-1-CHLOROPROPANE: 15
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: 8(CO176-00A
SAMPLE ID: 8001910
DATE: 2-27-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: \( \( \lambda \)
2-BROMO-1-CHLOROPROPANE: 117
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: 8602176-CZA
SAMPLE ID: 800197
DATE: 2-27-86
INSTRUMENT: 6
601/8010
BROMOCHLOROMETHANE: )   C
2-BROMO-1-CHLOROPROPANE: 135
602/8020
TRIELUODOTOLUENE.



LAB #: 81000176-CCIB
SAMPLE ID: 8008
DATE: 3-27-86
INSTRUMENT: ' G
601/8010
BROMOCHLOROMETHANE:   C
2-BROMO-1-CHLOROPROPANE: 105
602/8020
a,a,a-TRIFLUOROTOLUENE:

LAB #: S((03)76-05A
sample id: 80000
DATE: 2-27-80
INSTRUMENT:
<del>.</del>
601/8010
BROMOCHLOROMETHANE: 15
2-BROMO-1-CHLOROPROPANE: 135
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: SICCOPIG-CIC
SAMPLE ID: 800195
DATE: 2-27-86
INSTRUMENT:
*
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: 108, 110

LAB #: SOCAITO-CAC
SAMPLE ID: 800196
DATE: 2-27-86
INSTRUMENT:
•
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: 8(08)76-03C
SAMPLE ID: 860197
DATE: 2-27-86
INSTRUMENT:
-
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: \CL

LAB #: SCCOLTIC-CUC,
sample id: <u>800198</u>
DATE: 2-27-80
INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 103

LAB #: 80001710-050
SAMPLE ID: 80000
DATE: 2-27-86
INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: \(\( \)

RECONTRACTOR PROGRAM SERVICE DESCRIPTION OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PRO

LAB #: 8002171046A
sample id: <u>800199</u>
DATE: 2-38-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

Form V

ab name <u>Ra</u> nate 3-	alan -31-86	<del></del>	EPA San	o. <u>800217</u> nple No. — nple ID No. (	
		Hatrix <u>wa</u>	Units	ugint	
compound	Control Limit	Spiked Sample   Result (SSR)	Sample Result (SR)	Spiked Added (SA)	   %R!
lecals:					
. Aluminum	75-125			<u> </u>	
. Antimony					1
. Arsenic					!
. Barium	•	1.034	0.093	1.0	194
. Beryllium	•			<u> </u>	
. Cadmium	•	0.872	∠0.00⊋	1.0_	187
. (बोटाण्ड	**				
. Chromium	•	0.926	X 0.014	1.0	191
. Cobalt	•			<u> </u>	
G. Copper				<u> </u>	1
1. Iron	•			<u> </u>	
2. Lead	•				
3. Magnesiumi	•	<u> </u>		<u> </u>	<u> </u>
4. Manganese	•				1
5. Mercury	-		<u> </u>		<u> </u>
6. Nickel	•				†
7. Pocassium	•	·			1
8. Selenium	•				1
9. Silver	•	0.954	X0.008	1.0	195
20. Sodium	•				1
ll. Thallium	•				1
22. Tin	•				ī
23. Vanadium					
24. Ziac	•			<u> </u>	1
Other:			1	•	
1					1
yanide	•		1		
	SR)/SA] x 100				

6 222

for workerdus 86-02-047 86-02-176 86-02-197 86-03-004

Form II pg a
Q. C. Report No. 3

ALAN BARRARA BARRARA BARRARA BARRARA BARRARA BARRARA BARRARA BARRARA BARRARA BARRARA BARRARA BARRARA BARRARA B

#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

LAB NAME				CASE SOW 1	NO				
DATE			_	UNIT	s	Inl			
	Initi			Cont	tinuing	Calibr	ation ²		
Metals:	True Value	Found	ZR	True Value	Found	<u>₹R</u>	Found	ZR	Method 4
1. Aluminum									
2. Antimony									
3. Arsenic									
4. Barium				11,00	10.99	199	0.99	1991	IP
5. Beryllium									
6. Cadmium				1.00	1.00	100	400	1001	I P
7. Calcium									1
8. Chromium				1100	0.99	199	0.99	991	10
9. Cobalt									
U. Copper									
ll. Iron	j			11					
l2. Lead				li				i	
3. Magnesium	1								
4. Manganese	1	1							
5. Mercury							·		
6. Nickel					ĺ				İ
7. Potassium		i			ļ				1
8. Selenium									1
9. Silver				1.00	0.99	199	1.00	1001	i P
20. Sodium		<del>                                     </del>		11	1			1	<del></del>
l. Thallium				11	1	1	<u> </u>	1	1
22. Tin				11	<del></del>			<del>                                     </del>	<del>:</del>
23. Vanadium				}}					<u>.</u>
24. Zinc	<u> </u>				i		. :	<del>                                     </del>	
other:	<del> </del>			<del>                                     </del>		<u>-</u>			
				1		<del>}                                    </del>	<u> </u>	<del>                                     </del>	<u>'</u>
······································	<del> </del>			11	<del> </del>	<u> </u>	<u> </u>	<u> </u>	<del>`</del>
vanide	<del>-'</del>	<u> </u>		2 .	!	<u> </u>	<u></u>	<del></del>	1

¹ Initial Calibration Source 2 Continuing Calibration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

for work orders: 86-02-049 86-02-196 86-02-199 86-03-004

ICP QCDATA-PLANT 4

Form II 99 1

Q. C. Report No. <u>3</u>

INITIAL AND CONTINUING CALIBRATION VERIFICATION³

LAB	NAME R	dian		· •	CASE	NO	Pla	nt 4		
					SOW !	NO		·		
DATE	<u>. 3-3</u>	31-86			UNIT	s <u>119/</u>	ml.			
Cont	ound	Initia	l Calib.	.1	Cont	tinuing	Calib	ration ²		
Meta	ıls [†] :	True Value	Found	ZR	True Value	Found	ZR	Found	I IR	Method 4
1.	Aluminum									
2.	Antimony	!			<u> </u>	<u> </u>		<u> </u>		
3.	Arsenic						<u> </u>			
4.	Barium	1.00	0.99	99	1.00	0.98	198	0.99	1991	P
5.	Beryllium						1			
6.	Cadmium	1.00	0.98	98	1.00	0.99	199	1.02	102	10
7.	Calcium					<u> </u>				1
8.	Chromium	1.00	0.98	98	1,00	0.99	199	1.01	101	P
9.	Cobalt						<u> </u>			
10.	Copper									1
11.	Iron									
12.	Lead				1					i
13.	Magnesium									
14.	Manganese									
15.	Mercury									
16.	Nickel									
17.	Potassium									
18.	Selenium									1
19.	Silver	1.00	0.98	98	1.00	1.01	101	1.00	100	10
20.	Sodium									i
21.	Thallium									
22.	Tin									
23.	Vanadium									
24.	Zinc									
Other	::									!
										1
Cyana	de						İ			

¹ Initial Calibration Source 2 Continuing Calibration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

for workorders: 8602047,8602176 8602197 :8603004

#### Form III

Q. C. Report No. 3

BLANKS

Initial Cont Preparation Calibration Compound Blank Value I  Metals:  1. Aluminum 2. Antimony 3. Arsenic 4. Barium	CASE N	10. Plant 4					
Initial Cont Preparation Calibration Compound Blank Value I  Metals:  1. Aluminum 2. Antimony 3. Arsenic 4. Barium	UNIIS	e. Plant 4 Mg/ml					
Preparation Calibration  Compound Blank Value I  Metals:  1. Aluminum  2. Antimony  3. Arsenic  4. Barium	Macrix water						
Compound Blank Value 1  Metals:  1. Aluminum  2. Ancimony  3. Arsenic  4. Barium	Continuing Calibration						
Metals:  1. Aluminum  2. Ancimony  3. Arsenic  4. Barium	Blank Value	Preparation Blank					
1. Aluminum 2. Ancimony 3. Arsenic 4. Barium	2 3 4	1 2					
2. Ancimony 3. Arsenic 4. Barium		8603004					
3. Arsenic 4. Barium		8603004					
4. Barium							
6 Pa-114		140,002					
5. Beryllium							
6. Cadmium	·	11<0.002					
7. Calcium							
8. Caromium		11<0.005					
9. Cobalt							
10. Capper							
11. Iron							
12. Lead							
13. Magnesium							
14. Manganese							
15. Mercury							
16. Nickel							
17. Potassium							
18. Selenium							
19. Silver		1K0.CO2					
20. Sodium							
21. Thallium							
22. <u>Tin</u>							
23. Vanadium							
24. Zinc		11					
Other:	1 1 1						
Cyanide							

Jor workorders 8602047,8602176, 8602197:8603004

#### Form III

Q. C. Report No. 3

BLANKS

LAB NAME Rad	cen	-				Plant	
DATE	-31-86	-		Ū.	NITS	ug/ml	
		Mat:	rix			<i>J</i> .	
	Initial	Conti	inuing Ca		011		
Preparation	Calibration		Blank '	Value		Preparat	ion Blank
Compound	Blank Value	1 1	2	3	4	1	2
Metals:						8602047	86021
1. Aluminum		-				Jourant 7	860219
2. Ancimony			<del> </del>		<del>                                     </del>	1	1
3. Arsenic	16.62		15 -	15.5	1.5	1 1 2 2 2	1
4. Barium	LO.001	11X0.003	40,001	<0.001	K0.001	120,001	X0.002
5. Beryllium		1			<u>                                     </u>		10.00=
6. Cadmium	<0.002	10002	10.002	KO.002	K0.002	1<0.002	10.00
7. Calcium		<u> </u>		/ <del>-</del>	1/0 05	1722	
8. Chromium	<0.005	1×0.010	(0.005	KO.005	KU.U05	< 0.005	K0.005
9. Cobalt		<b></b>		<u></u>		1	1
10. Copper		Ц					<u> </u>
ll. Iron		!!				<u> </u>	<u> </u>
12. Lead		<del></del>	1	<u></u>	1		
13. Magnesium		<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>
14. Manganese		<u> </u>	<u> </u>		<u></u>		
15. Mercury		11	<u> </u>	<u> </u>	<u>                                     </u>	<u> </u>	
16. Nickel		<u> </u>			<u>                                     </u>	<u> </u>	
17. Potassium		<u>                                     </u>					
18. Selenium		<u>                                     </u>		<u></u>			
19. Silver	<0.002	10.025	0.013	X0.005	10.010	10,002	40,002
20. Sodium							
21. Thallium							
22. <u>Tin</u>					`	,	
23. Vanadium							
24. Zine						•	
Other:	·						
Cyanide					!		

EPA-25. 860145, 860116, 82071, 840700

SAC

#### **CHAIN OF CUSTODY RECORD**

	Fie	ld Sample No
Company Sampled / Address / //	CAN SILLING	Du 14
Sample Point Description	de Depremies, Et Derly	
Stream Characteristics:		
	Flow	pH
•		
Collector's Name //e at which	Date/Time Sampled	2.21
Amount of Sample Collected	let 1177 at Change	
Sample Description 6 142 116	to for al glow	
Store at: Ambient 5°C -	10°C Dother 4°C	
T Caution - No more cample available	☐ Return unused portion of sample ☐	Discard unused portions
·		
Other Instructions - Special Handling -	Hazards	
☑ Hazardous sample (see below)	☐ Non-hazardou	s sample
☑ Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C
□ Pyrophoric	☐ Lachrymator	□ Shock sensitive
□ Acidic	☐ Biological	✓ Carcinogenic · suspect
□ Caustic	☐ Peroxide	✓ □ Radioactive
□ Other		
Sample Allocation/Chain of Possessic	on:	
Organization Name <u>Statistics</u>	Date Received Lab Sample No & G - C	
Received By	Date Received	Time
Fransported By //feed a lack	Lab Sample No. 86-0	2-179
Comments		
nclusive Dates of Possession 2-2	6.82	
105.00	. ~	
Processed By 1/41/60 1000	Date Received	7/47/ / Time // 7 (
Francisco By 7 ( × 34.2	914110 Lab Sample No.	71117 E 11110
•	TI TOO CAN SAMPLE NO.	
	Date Received	
	Lab Sample No	
•	Lab Sample No	

# RADIAN AUSTIN

EPA 601: 800201,800202,820 203,820204, 820205, 820306
EPA 602 860201,820202,860203,860204, 520205,860206
METANS 860201,820202,860203,820204,820205,820206
CHAIN OF CUSTODY RECORD

	rio:	d Sample No.
Company Sampled Address Cen	eral Depremies For Worth	- Plant 4
Sample Point Description 6000	newater	
Stream Characteristics:		
	Flow	n H
Collector's Name Fred Son	Date/Time Sampled	2/27/82
Amount of Sample Collected	· -	
Sample Description <u>Augur</u>	durita	
Store at: ☐ Ambient ☐ 5°C ☐	-10°C POther	
	ble  Return unused portion of sample   [	
Other Instructions - Special Handlin	ng · Hazards	
Hazardous sample (see below)	☐ Non-hazardous	sample
<b>ℒ</b> Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C
□ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	∠ Carcinogenic · suspect
□ Caustic	□ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain of Posses	ssion:	
Propried By	Data Bassived	7:
Cransported By FILE Co. 10	Date Received	IIme
Comments	Date Received	
nclusive Dates of Possession	127/82	
Organization Name	Date Received	
Received By	Date Received	Time
ransported by	Lab Sample No.	<del></del>
Comments	<del></del>	
nclusive Dates of Possession		
Received By	Date Received	Time
ransported By	Lab Sample No	

Form VI

Q. C. Report No. <u>3</u>	Q. C	. Report	No.	3
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DUPLICATES

Plant 4

LAB NAME	Radian	
DATE	3-31-86	

CASE NO. 8002197-05

EPA Sample No. — Production
Units MANNEL

	Hasti	x water		<b></b>
ozocunc	Control Limit	Sample(S)	Dublicate(D)	I RPD-
etals: Aluminum				
. Antimony				
Arsenic				!
. Barium		0.682	0.769	12.0
. Bervllium				
. Cadmium		<0.002	<0.002	NC
. Calcium				1
. Chromium		0.081	0.095	15.9
. Cobalt.				
U. Copper				
l. Iron				
2. Lead				
3. Magnesium				!
4. Manganese				1
5. Mercury				1
6. Nickel				1
7. Potassium				
8. Selenium				
9. Silver		*0.010	0.012	18.2
O. Sodium				
1. Thallium				
2. Tin				
3. Vanadium				
24. Zinc				
Cner:				i
				·
Cyanide				1

Four of Control

To be added at a later date.

 $^{2 \}text{ RPD} = [(S - D)/((S + D)/2)] \times 100$ 

^{1 -} Non calculable RPD due to value(s) less than CRDL

^{*}indicative value is less than 5 xial

#### Form V

Q. C. Report No. 3

Plant	4
	_

•	SPIKE SAMPLE	RECOVERY	Mant 4	
dian 31-8/2		CASE NO	a Ma	
31-80		Lab San Units	INAL MIL	inauti
	Hatrix			
Control Limit	Spiked Sample	Sample	Spiked	
TR.	Result (SSR)	Result (SR)	Added (SA)	TR!
				1 1
75-125				
-				<u>l ·                                    </u>
<del>-</del>				<u>                                     </u>
•	0.486	0.039	1.0	195
•			<u> </u>	<u> </u>
•	0.880	10.002	1.0	188
•		·		<u>                                     </u>
•	0.928	X0.014	1.0	191
•				!
•				1
•				
•				[ ]
•				!
•				1
•		1	i	1
•		1		
•	1.7	1	1	1 1
•	1		1	
•	0.974	0.020	1.0	195
•		1		
•	<u> </u>	1	1	
•		i		
•			i I	
•		<u> </u>	<del></del>	· · · · · · · · · · · · · · · · · · ·
<del></del>	<u>!</u>	<del></del>	<u> </u>	<del></del> -
	75-125	Matrix	Sample   Sample   Sample   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result (SSR)   Result	CASE NO.   SAMPLE   Sample   No.   _ Lab Sample   No.   _ Lab Sample   ID No.   _ Units   UA  ML

Cyanide

THE THE THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT OF THE PROJECT O

Commencs: * indicates value is less than 5 x idl

 $[\]frac{1}{23} = [(SSR - SR)/SA] \times 100$ 

[&]quot;?" - out of control

#### Form V

Q. C. Report No. 3

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	•	SPIKE SAMPLE	RECOVERY	Plant 4	7.
LAB NAME	rdian		CASE NO	.8602197	1-06
DATE 3-		<del></del>	EPA Sai	mple No. —	TRACTION A
	37-80	<del></del>	Unics	ualme	<u>numayo</u>
		Hatrix Wa		<i>y</i>	
	Control Limit	Spiked Sample	Sample	Spiked	
ompound	TR.	Result (SSR)	Result (SR)	Added (SA)	ZR!
letals:				Ì	1 1
. Aluminum	75-125			<u> </u>	
. Ancimony	•	<u></u>			
. Arsenic	-	<u> </u>			
4. Barium	-	1,758	0.039	2.0	186
Beryllium	•	<u> </u>		<u> </u>	
. Cadmium	-	0.035	<0.002	0.05	170
. Calcium	•			<u> </u>	<u>                                     </u>
. Chromium	•	0.171	X0.014	0.2	179
. Cobalt	•				
O. Copper	•			1	1
1. Iron	-				
l2. Lead					1
l3. Magnesium	·			1	1
14. Manganese	1				
15. Mercury	•		†		
l6. Nickel	•				1
17. Potassium	•	**		i	1
18. Selenium	•				1
19. Silver	•	0.207	0.020	0.25	191
20. Sodium	i -				
21. Thallium	-		<u> </u>	<u> </u>	<u> </u>
22. Tin	•		1	· <del></del>	
23. Vanadium	•		<u> </u>	<del></del>	<del>                                     </del>
Yanagium	<del></del>	<del></del>	<del> </del>	<u> </u>	

24. Ziac Other:_

Cyanide

Research Society Research

Commencs:

 $^{^{1}}$  22 = [(SSR - SR)/SA] x 100

[&]quot;R"- out of control

W-1-6:1- O-0-5	GC QC					
Volatile Organics  Report 3	detection limits #8602197					
HETHOD (COI		METHOD				
		DETECTION				
		LIMIT				
COMPOUND						
CORPORD	-01>-00					
Chloromethane	0.08					
Bromomethane	1.18					
Vinyl Chloride	0.18					
Chloroethane	0.52					
Methylene Chloride	0.25					
Trichlorofluoromethane	CAO					
1,1-Dichloroethene	CB					
1,1-Dichloroethane	CaCa					
Trans-1,2-Dichloroethene	0.10					
Chloroform	0.13					
1,2-Dichloroethane	( ) 7					
l,l,l-Trichloroethane	0.10					
Carbon Tetrachloride	6.05					
Bromodichloromethane	0.03					
1,2-Dichloropropane	0.03					
Trichloroethene	0.12					
Dibromochloromethane	C. 10					
2-Chloroethylvinyl Ether	0.04					
Brcmoform	0.12					
Tetrachloroethene	0.03					
C_lorobenzene	0.25					
1,3-Dichlorobenzene	0.32					
1,2-Dichlorobenzene	6.15					
1,4-Dichlorobenzene	0.24					

THE PRODUCTION OF THE PRODUCT OF THE PRODUCTION OF THE PRODUCTION OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT OF THE PRODUCT

DETECTION LIMITS

VOLATILE ORGANICS

METHOD (OOC)

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NEOS NEOS												
# 8(00.3197	)											
++						÷.						
	11		-									
	DETECTION LIMIT											
	rect10									 	-	
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											,	
		d					0		0			
		00-00	0.30	O. 20	06.0	080	0.30	0,40	Oh'O			
		9										
							NZENE	NZENE	NZENE			
	ND				ENE	ZENE	OROBE	OROBE	OROBE			
	COMPOUND		ENE	JENE	ETHYLBENZENE	CHLOROBENZENE	1,4-dichlorobenzene	1,3-dichlorobenzene	1,2-dichlorobenzene			
	<u> </u>		BENZENE	TOLUENE	ETHY	СНГС	1,4-	1,3-	1,2-			
Į												

TO SOME THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR

LAB # 37579	- BLANK		
CLIENT NAME			
SAMPLE ID			
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: >   x /3C ANALYST: J>C INSTRUMENT: 0
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	·	Benzene	$\mathcal{N}$
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	<del></del>
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	1
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe		M-Xylene	
Chloroform		O-Xylene	
1.2-Dichlorethane 1.1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans-1.3-Dichloroprop Trichloroethene Dibromochloromethane 1.1.2-Trichlorethane cis-1.3-Dichloropropen 2-Chloroethylvinyl eth Bromoform 1.1.2.2-Tetrachloretha Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.4-Dichlorobenzene	ene e er ne	SURROGATE RECOVERI  601  Bromochloromethane 2-Brome-1-Chloropr 1,4-)ichlorobutane 602 a,a,a,-Trifluoroto	opane

LAB # CONSUM	7 BUNK		
CLIENT NAME			
SAMPLE ID			
	******	******	=======
EPA METHOD	DATE:	EPA METHOD	DATE:> 28/86
601	ANALYST:	602	ANALYST: CO INSTRUMENT: O
	INSTRUMENT:		INSTRUMENT:
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	No
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1,4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane		]	
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropage		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropen	ε	601	
Trichloroethene		Browochloromethane	
Dibromochloromethane		_ 2-Brome-1-Chloropr	
1.1.2-Trichlorethane		l,4-)ichlorobutane	<del></del>
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	luene
Bromoform		<u>-</u> !	
1.1.2.2-Tetrachlorethane		<del>'</del>	
<u>Tetrachlorethylene</u>		<del>_</del>	
Chlorobenzene			
1.3-Dichlorobenzene	<del></del>	<u>-</u>	
1.2-Dichlorobenzene		<u>-</u> i	
1.4-Dichlorobenzene	<u></u>	_i	
		•	
		1	

LAB # SYSTA	- Bun			
CLIENT NAME			<del></del>	
SAMPLE ID			<del></del>	
SAMPLE ID				
EPA METHOD	DATE: 7	redoc	EPA METHOD	DATE:
601	ANALYS	1:36	602	ANALYST:
	INSTRUM	IENT:	• • • • • • • • • • • • • • • • • • •	INSTRUMENT:
		bu		
COMPOUND	CONCENT	TRATION	COMPOUND	CONCENTRATION
	(ug)	/L)		(ug/L)
<del></del>				
Chloromethane		NO	Benzene	
Bromomethane		7 7	Toluene	<del></del>
Vinyl Chloride			Ethyl benzene	<del></del>
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xvlene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			O-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane			]	
1.2-Dichloropropane			SURROGATE RECOVER	IES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene	.,	<b></b>	Browochloromethan	e
Dibromochloromethane		<u></u>	2-Brome-1-Chlorop:	
1.1.2-Trichlorethane			1,4-Dichlorobutan	e
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluorote	oluene
Bromoform			↓. <del>•</del>	
1.1.2.2-Tetrachlorethane			↓ <del>1</del>	
Tetrachlorethylene			4	
Chlorobenzene			1	
1.3-Dichlorobenzene			-	
1.2-Dichlorobenzene	¥		1	
1.4-Dichlorobenzene			-	
			†	
			1	
,				

LAB # NOM CONT CO	ANK			
CLIENT NAME				
SAMPLE ID				
**********	222222	F==F===		********
EPA METROD 601	DATE: 2 ANALYST INSTRUM	· AP	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENT		COMPOUND	CONCENTRATION (ug/L)
Chloromethane	No	2	Benzene	
Bromomethane	1		Toluene	
Vinyl Chloride			Ethyl benzene	<del></del>
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1,2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene	• • • • • • • • • • • • • • • • • • • •	J	Bromochloromethane	·
Dibromochloromethane			2-Brome-1-Chloropr	opane
1.1.2-Trichlorethane		ļ	l,4-Dichlorobutane	·
cis-1.3-Dichloropropene		<del> </del>	602	
2-Chloroethylvinyl ether		<u> </u>	a,a,a,-Trifluoroto	luene
Bromoform			1 -	
1.1.2.2-Tetrachlorethane		<del>-</del>	1	
<u>Tetrachlorethylene</u>		<del></del>	_	
Chlorobenzene	· · · · · · · · · · · · · · · · · · ·			
1.3-Dichlorobenzene				
1.2-Dichlorobeczene			<u> </u> -:	
1.4-Dichlcrobenzene		<u> </u>	-	
			-	

#### SPIKE RECOVERY

EPA METHOD 601 Volatile Organics	8602197-02A PARY 860202			shilit 19 G				
COMPOUNDS	SSR	SR	SA	ZR	SSR	SR	SA	×
Chloromethane								
Bromomethane			<u> </u>					
Vinyl chloride								
Chloroethane								
Methylene chloride	9.7	0.33	9.2	107				
Trichlorofluoromethane								
l,1-Dichloroethene	8.0		10.0	go				
1,1-Dichloroethane								
trans-1,2-Dichloroethene	6.1	0.74	5.4	100				
Chloroform	49.0		430	114				
1,2-Dichloroethane	41.0		27.6	149		·		
1,1,1-Trichloroethane	17.6		Y	(33				
Carbon Tetrachloride	236		20.0					
Bromodichloroemethane	10.0		7.8	197				
1,2-Dichloropropane	10.1		8.0	127				
Trichloroethene	26.8	0.31	22.2			<del></del>		
Dibromochloromethane	19.7		16.7	118				
1,1,2-Trichloroethane							1	
cis-1,2-Dichloropropene							i	
2-Chlorethylvinyl ether								
Bromoform	12.5		9.9	126				
1,1,2,2-Tetrachloreothan		·	10.0	•				
Tetrachlorethylene		0.08						
Chlorobenzene	10.3		8,2	136				
1,3-Dichlorobenzene	<u> </u>			10 -				
1,2-Dichlorobenzene	<del> </del>						!	
1,4-Dichlorobenzene								

SSR = Spiked Sample Result

SR = Sample Result

6 238

SA = Spike Added

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	0/28/16		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Z Recover
		INSTRUMENT		D			
TEST	医电影联系电影系统系统	********	******	*******			
METHOD EPA 601	COMPOUND EPA WP 483 C	ONC 2				]	
				G	6		
	AND WP 781 CO			<u> </u>			
	Methylene Chl	oride	9.2	10.6	115		
	1.1-Dichloroe	thylene	10.0	8.2	35		-
	Trans-1.2-Dic	hloroethylene	5.4		<u> </u>		
	Chloroform	- ·	43.0	20.3-	117		
	1.2-Dichloroe	thane	27.6	43,7	123		
	1.1.1-Trichlo	rethane	14.3	15.7	1(0		
	Carbon Tetrac	hloride	20.0	19.8	99		
	Bromodichloro	methane	7.9	10,9	133		
	1.2-Dichlorop	ropane	8.0	3.6	107		
	Trichloroethe	ne	22.2	24.1	103		
	Dibromochloro	methane	16.7	13.9	113		
	Bromoform		9.9	9.3	94		
	1.1.2.2-Tetra	chloroethane	10.0				
	Tetrachloroet	hene	6.2				
	Chlorobenzene		8.2	9.3	119		
EPA 602	EPA - WP 879			- U			
	Benzene		30.7	33.6	139		
	Toluene		4.1	3.7	31		
	Ethylbenzene		11.5	10.4	70		
	P-Xylen		19.1	127	را. د٩		
	M-Xylene		42.6	47.7	100		
	0-Xvlene		10.6	77	43		
EPA 608			(ug/g)				
	Aroclor 1242		58.7				
	Aroclor 1260	<del></del>	56.8				

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	0/38/26		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	% Recovery
	IN	STRUMENT		D			
TEST METHOD	COMPOUND	TECF88888			*******		
EPA 601	EPA WP 483 CONC. 2  AND WP 781 CONC.3			G	6		
	Methylene Chloride		9.2	10.6	115		
	1.1-Dichloroethy		10.0	8.2	35		
	Trans-1.2-Dichlo		}				-
	Chloroform		43.0	50.7	117		
	1.2-Dichloroethane		27.6	43,7	123		
	1.1.1-Trichlorethane		14.3	15.7	110		
	Carbon Tetrachloride		20.0	19.3	99		
	Bromodichloromethane		7.9	10.9	133		
	1.2-Dichloropropane		8.0	3.6	107		
	Trichloroethene		22.2	24.1	103		
	Dibromochloromet	hane	16.7	13.9	113		
	Bromoform	<del></del>	9.9	9.3	94		
	1.1.2.2-Tetrachl	oroethane	10.0				
	Tetrachloroethen	<u>e</u>	6.2				
	Chlorobenzene		8.2	9.3	13		
EPA 602	EPA - WP 879 CON	C.1					
	Benzene		30.7	33.6	1 39		
	Toluene		4.1	3.7	91		
	Ethylbenzene		11.5	10,4	40		
	P-Xylene		19.1	184	7.4		
	M-Xylene		42.6	47.7	100		
	0-Xylene		10.6	7/	4,3		
EPA 608	Aroclor 1242		(ug/g)				
	Aroclor 1260	<del>,</del>	56.8				<del>* </del>

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LAB #: 81000197-01A
SAMPLE ID: 8100001
DATE: 2-28-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 119
2-BROMO-1-CHLOROPROPANE: 122
602/802 <b>0</b>
a,a,a-TRIFLUOROTCLUENE:

LAB #:8(00)197-00)A
SAMPLE ID: SCOROL
DATE: 2-28-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 13
2-BROMO-1-CHLOROPROPANE: \(\sum_{\chi}\)
602/8020
a,a,a-TRIFLUOROTOLUENE:

LAB #: 866-147-03A
sample id: <u>800203</u>
DATE: 2-28-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 100
2-BROMO-1-CHLOROPROPANE: 43
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: 8003197-001A
SAMPLE ID: DCCOCCI
DATE: 2-38-80
INSTRUMENT:
·
601/8010
BROMOCHLOROMETHANE: 135
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:

LAB #:8(CC2197-C5A
sample id: <u>800205</u>
DATE: 2-28-86
INSTRUMENT:
-
601/8010
BROMOCHLOROMETHANE: 122
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: 56CQQ7-CCA
sample id: 800000
DATE: 2-28-860
INSTRUMENT: G
•
601/8010
BROMOCHLOROMETHANE: 101
2-BROMO-1-CHLOROPROPANE: 107
602/8020
a,a,a-TRIFLUOROTOLUENE:

LAB #:3600197
SAMPLE ID: 800801
DATE: 2-28-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: 163

LAB #: 36002192-020
SAMPLE ID: 8(0000
DATE: 2-28-86
INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:   C



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LAB #: 3000077-030
SAMPLE ID: 800003
DATE: 2-28-86
INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: LEG

LAB #: SCCORIZ-CUC
SAMPLE ID: 800304
DATE: 2-28-86
INSTRUMENT:
(0) (0)
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 1/5

LAB #: 8003107-050
SAMPLE ID: 000005
DATE: 2-28-86
INSTRUMENT:
•
(0) (0)
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: \CC

LAB #: 86003197-000C
sample id: $860000$
DATE: 231-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:_\CA

Jor workorders 8602047,8602176, 8602197:8603004

Form III

Q. C. Report No. 3

LAB NAME Radian	CASE NO. Plant 4
DATE 3-31-86	UNITS <u>MA/MA</u>
	Macrix <u>water</u>
·	

	Initial	Cont	inuing C	alibrati	on_		
Preparation	Calibration		Blank Value			Preparation Blank	
Compound	Blank Value	1	2	3	4	1	2
Metals:		11	1	{		8602047	for
l. Aluminum		<u>                                     </u>				8602047	860219
2. Antimony							
3. Arsenic							
4. Barium	20.001	1X0.002	40,001	<0.001	K0.001	120,001	X0.008
5. Beryllium							
6. Cadmium	40.002	10.002	10.002	KO.002	K0.002	150,002	10,000
7. Calcium							
8. Caromium	<0.005	1×0.010	(0.005	10.005	K0.005	<0.005	140.005
9. Cobalt							
10. Copper							
ll. Iron							
12. Lead							
13. Magnesium		11					
14. Manganese							
15. Mercury		11.,			]		1
l6. Nickel							İ
17. Potassium							İ
18. Selenium					<u> </u>		1
19. Silver	<0.002	110,025	0.013	X0.005	10.010	120,007	40,007
20. Sodium							
21. Thallium		11					
22. <u>Tia</u>					,	·	
23. Vanadium							1
24. Zine					]	11	
Other:	•			1	١	11	1
					\	11	
Cyanide		11			1		

for workorders: 8602047,8602176 8602197 :8603004

Form III

Q. C. Report No. 3

BLANKS

LAB NAME <u>Andron</u> DATE 3-31-86						C	ASE NO.	Plant 4	<i>L</i>
UAL		J1 -0 P	<b>-</b>	Macri	x _///	ter_		49/2/18	
	paracion	Initial Calibration Blank Value		_	Blank V	alibrati Value	<u>on</u> 4	Preparat:	Lon Blank
ieta		BIGHT AGINE		<u> </u>				11800	
1.	Aluminum Ancimony	-						8603004	
3.	Arsenic							11110000	
	Barium Beryllium							1120,002	
	Cadmium Calcium				<del></del>	•		11<0.002	<del> </del>
	Caromium Cobalt						<u> </u>	10.005	
10.	Copper								
	Iron Lead				·				
	Magnesium Manganese			$\dashv$					·
15.	Mercury Nickel								
17.	Potassium								
	Selenium Silver							10.002	
	Sodium Thallium								
22.	Tin								
	Vanadium Zinc								
Othe	r:	·							
Cyar	nide					·   	!		

For work orders: 86-02-049 86-02-196 86-02-199

86-03-004

ICP QCDATA-PLANT 4

Form II 99 1

Q. C. Report No. ___3____

INITIAL AND CONTINUING CALIBRATION VERIFICATION

DATE   3-31-86   UNITS   Lig   ml.	LAB	NAME Ra	dian			CASE	NO				
Metals:         True Value         Found         IR         True Value         Found         IR         Found         IR         Found         IR         Found         IR         Found         IR         Found         IR         Method           1. Aluminum         2. Antimony         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P						sow !	NO				
Metals:         True Value         Found         IR         True Value         Found         IR         Found         IR         Found         IR         Found         IR         Found         IR         Found         IR         Method           1. Aluminum         2. Antimony         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         3. Arsenic         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P         4. Depth P	DAT	<u>ق و جي</u> ع	31-86			UNIT	S _119/	me			
1. Aluminum 2. Antimony 3. Arsenic 4. Barium				al Calib	. 1	Cont	cinuing	Calib	ration ²		
2. Antimony 3. Arsenic 4. Barium	Met	als:	True Value	Found	ZR	True Value	Found	₹R	Found	<u>IR</u>	Method 4
3. Arsenic	1.	Aluminum	<u> </u>	<u> </u>				<u> </u>			
4. Barium	2.	Antimony		<u></u>			<u> </u>			-	
5. Beryllium 6. Cadmium	3.	Arsenic						<u> </u>			
6. Cadmium	4.	Barium	1.00	0.99	199	1.00	0.98	198	0.99	1991	P
7. Calcium  8. Chromium	5.	Beryllium					}				
8. Chromium	6.	Cadmium	1.00	0.98	98	1.00	0.99	199	1.02	102	P
9. Cobalt 10. Copper 11. Iron 12. Lead 13. Magnesium 14. Manganese 15. Mercury 16. Nickel 17. Potassium 18. Selenium 19. Silver 1.00 0.98 98 1.00 1.01 1.00 1.00 1.00 1.00 1.00 1.0	7.	Calcium									1
10. Copper	8.	Chromium	1.00	0.98	98	1,00	0.99	199	1.01	101	P
11. Iron  12. Lead  13. Magnesium  14. Manganese  15. Mercury  16. Nickel  17. Potassium  18. Selenium  19. Silver 1.00 0.98 98 1.00 1.01 101 1.00 100 P  20. Sodium  21. Thallium  22. Tin  23. Vanadium  24. Zinc  Other:	9.	Cobalt									
12. Lead  13. Magnesium  14. Manganese  15. Mercury  16. Nickel  17. Potassium  18. Selenium  19. Silver	10.	Copper									!
13. Magnesium  14. Manganese  15. Mercury  16. Nickel  17. Potassium  18. Selenium  19. Silver	11.	Iron									
14. Manganese  15. Mercury  16. Nickel  17. Potassium  18. Selenium  19. Silver	12.	Lead									
15. Mercury  16. Nickel  17. Potassium  18. Selenium  19. Silver	13.	Magnesium									-
16. Nickel  17. Potassium  18. Selenium  19. Silver  1.00  0.98  98  1.00  1.01  1.01  1.00  0.00  0.21. Thallium  22. Tin  23. Vanadium  24. Zinc  0cher:	14.	Manganese						Ţ			<u> </u>
17. Potassium  18. Selenium  19. Silver	15.	Mercury									
18. Selenium	16.	Nickel		1				1	l		į
19. Silver   1.00   0.98   98   1.00   1.01   1.00   100   P  20. Sodium	17.	Potassium									1
20. Sodium 21. Thallium 22. Tin 23. Vanadium 24. Zinc 25. Cother:	18.	Selenium		ĺ	1				1		(
20. Sodium 21. Thallium 22. Tin 23. Vanadium 24. Zinc 25. Cother:	19.	Silver	1.00	0.98	198	1.00	1.01	101	1,00	100	IP
22. Tin  23. Vanadium  24. Zinc  Other:						1			ĺ		İ
23. Vanadium	21.	Thallium						1			1
24. Zinc	22.	Tin						1			
24. Zinc Other:	23.	Vanadium									
	24.	Zinc				1		1	1.		
				i				1	1	1 1	1
Cyanide							1	1	1	1	1
eyangaa i i i i i i i i i i i i i i i i i i	Cyan:	ıde		<u> </u>				1		1	1

¹ Initial Calibration Source 2 Continuing Calibration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

for workerders 86-02-047 86-02-176 86-02-197 86-03-004

Form II 1998 Q. C. Report No. 3

#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

■マンススススを開催されたれるのは<br />
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lab name <u>R</u> a	dian			CASE SOW N	NO	Plan	£4		
DATE	31-86			UNITS	; <u>119</u>	Inl			
Compound		al Calib.	1	Cont	Sg tinuing (	Calibr	acion ²		
	True Value			True Value	,	1 1	i i	ZR	Method 4
l. Aluminum		_							
2. Antimony					<u> </u>				
3. Arsenic									
4. Barium				1.00	10.99	1991	0.99	991	P
5. Beryllium									
6. Cadmium				1.00	1.00	100	400	100	I P
7. Calcium									1_
8. Chromium				1,00	0.99	1991	0.99	1991	I P
9. Cobalt				<u> </u>			11	1	1
O. Copper		<u> </u>		1	Ī		1	T	1
.1. Iron					Ĭ		1	1	
2. Lead				1]	<u> </u>		1	Ī	1
3. Magnesium					<u> </u>		!	1	1
4. Manganese	ì	T		1 . 1			1		
5. Mercury							1		i
6. Nickel					1		1	<del></del>	i
7. Potassium							1		1
8. Selenium					1			<del></del>	1
9. Silver	i	<del>-                                    </del>	i	1.00	0.99	1991	1.00	1001	i P
O. Sodium				1	1	1	1	1	<del></del>
1. Thallium			i		1	1	, i		
2. Tin				1	<del>                                     </del>		1 ,	<del>     </del>	<del></del>
3. Vanadium		1 1		1	<del></del>	†	1	† †	
4. Zinc		<del>                                     </del>		<del>                                     </del>		<del>                                     </del>	1. 1	+	<del></del>
ther:		+			<del> </del>	<del>                                     </del>	1	+	1
	<del>                                     </del>				<del></del>	<del></del>	1	+	<u>·</u>
720140	<del> </del>				<del> </del>	<del> </del>	-		<u>;</u>
vanide		<u> </u>		11		<u> </u>			<u></u>

¹ Initial Calibration Source 2 Continuing Calibration Source 3 Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

SAC

ETA 625 820201, 820202, 820203, 820204, 820205, 820204 Rj (2) (2) (1)

### **CHAIN OF CUSTODY RECORD**

	Fie	ld Sample No
Company Sampled Address GML	d Dynamics . Ft. Water	B. Plus & J
Sample Point Description Orong	el Witer	1 113204
Stream Characteristics:	<b>51</b>	
•	Flow	рн
Visual Observations/Comments		
Collector's Name Average Source	Date/Time Sampled	2/27/87
Amount of Sample Collected // = //	Want umber Alle	
Sample Description Grundy	Wont under yours	
	10°C Dother 4°C	
Caution - No more sample available	☐ Return unused portion of sample ☐	Discard unused portions
Other Instructions - Special Handling -	Hazards	
Hazardous sample (see below)	☐ Non-hazardou	s sample
<b>Ø</b> Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
☐ Pyrophoric	☐ Lachrymator	□ Shock sensitive
☐ Acidic	☐ Biological	Carcinogenic · suspect
□ Caustic	☐ Peroxide	⊂ Radioactive
Other		
Sample Allocation/Chain of Possessic		
Received Rv	Date Received Lab Sample No	Time
Transported By Freel Smule	Lah Sample No.	100
Comments	Lab Gumpio III.	
Inclusive Dates of Possession	27-82	
	Qualifical Suc S	- 1
Received By Wanda Thor	Date Received 2	86 Time (0:30
Transported By July X 34391	V384 Lab Sample No	TON TON TON
Comments	- Lab Sample No.	
Organization Name		
	Date Received	Time
-	Lab Sample No.	
•	Lab Sample No.	
Inclusive Dates of Possession		

# EPH 602 SECTIZ, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT, SECTOT

RADIAN RAS

HC-FUELS: 560210, 860208, 960211, 560207, 860212, 560207 OIL (GREADE: 960210, 960212, 860211, 560208, 860207, 860209

CHAIN OF CUSTODY RECORD

	NICS INCLUDITO	Field Sample No
Company Sampled / Address G-E / E		·
Company Sampled Address <u>O.E.A.E.I</u> Sample Point Description <u>GRCUN</u>		
Stream Characteristics:		
Temperature	Flow	pH
Visual Observations/Comments		
Collector's Name F. SNYDER	Date/Time Sa	mpled 2/28/86
Amount of Sample Collected (28) is	OA's (12) moson has (GTE)	mpled 2/28/86 (5) 500 ml Plastic
Comple Description Converse 1/14	TED.	
Sample Description	- 10°C ☑ Other <u>4°C</u>	
Caution · No more sample availab		
Other Instructions - Special Handling		
⊠ Hazardous sample (see below)	□ Non-h	nazardous sample
☑ Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
☐ Pyrophoric	☐ Lachrymator	□ Shock sensitive
☐ Acidic	☐ Biological	∠Carcinogenic · suspect
□ Caustic	□ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain of Possess	ion:	
Organization Name RADIAN (	ORP.	
Received By	Date Rece	ived Time
Transported By	Lab Sample No. 💆	ived Time
Inclusive Dates of Possession $\frac{2/2}{}$	18/86 - 3/1/86	
Organization Name RAS		
Received By WM MANAY	Date Rece	ived 3 3.36 Time CYCO
Transported By	Lab Sample No.	ived 3 3 36 Time (700 5603002,004
Comments		
Organization Name		
Received By	Date Rece	ived Time
· -	·	

Volatile Organics	DETE	CTION LIMIT	:s #5(((=	3CCA
METHOD				METHOD DETECTION LIMIT
сомроиир		U5,-06,-08	5 -07 -13-04	
Chloromethane		(108	_C.C3_	
Bromomethane		1.18	1.18	
Vinyl Chloride		1.18	CIS	
Chloroethane	<del></del>	(.52	COR	
Methylene Chloride		(,25	(,)5)	
Trichlorofluoromethane,		$C_{i}$	C.S1	
1,1-Dichloroethene		(13	_0.13	
1,1-Dichloroethane		( ()	r.0+	
Trans-1,2-Dichloroethene		6.10	0.10	
Chloroform		0.05	0.65	
1,2-Dichloroethane		0.03	C.13	
l,l,l-Trichloroethane		_1,03	C,03	
Carbon Tetrachloride		0.13	0.12	
Bromodichloromethane		_0.16	0.10	
1,2-Dichloropropane		0,54	C.(4	
Trichloroethene		6.12	- C112	
Dibromochloromethane		0.09	0.09	
2-Chloroethylvinyl Ether		0.13	C.13	
Brcmoform		1.20	(20	
Tetrachloroethene		L.U3	6.13	
Chlorobenzene		1.25	C.25	
1,3-Dichlorobenzene		C.32	4.32	
1,2-Dichlorobenzene		4.15	6.15	
1,4-Dichlorobenzene		C. 74	460	

DETECTION LIMITS

VOLATILE ORGANICS

METHOD

#KWU3CCB											
<b>千</b>	DETECTION LIMIT										
		-CO+CS	C.B	0.8	6,3	. C.A	6,3	6,4	h:7		
	COMPOUND		BENZENE	TOLUENE	ETHYLBENZENE	CHLOROBENZENE	1,4-DICHLOROBENZENE	1,3-DICHLOROBENZENE	1,2-DICHLOROBENZENE		

LAB # 5Y576-	BLYME		
CLIENT NAME			
SAMPLE ID			
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 35/36 ANALYST: 356 INSTRUMENT: 00
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	$\sim 0$
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1,4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethen	e	M-Xylene	<u> </u>
Chloroform		0-Xylene	
1.2-Dichlorethane 1.1.1-Trichlorethane Carbon tetrachloride			
Bromodichlormethane	<del></del>		
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloroprope	ne	601	
Trichloroethene		Browochloromethan	e
Dibromochloromethane		2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		1,4-Dichlorobutan	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ethe		a,a,a,-Trifluorot	oluene
Bromoform		].	
1.1.2.2-Tetrachlorethan	e		
Tetrachlorethylene			
Chlorobenzene			
1.3-Dichlorobenzene		_	
1.2-Dichlorobenzene			
1.4-Dichlorobenzene			

LAB # NOAGENT	BUNK		
CLIENT NAME			
SAMPLE ID			
*======================================			
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 3 5/2L ANALYST: OMV INSTRUMENT: 00.1
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	N
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform	<del></del>	0-Xylene	
1.2-Dichlorethane 1.1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans-1.3-Dichloropropene Trichloroethene Dibromochloromethane 1.1.2-Trichlorethane cis-1.3-Dichloropropene 2-Chloroethylvinyl ether Bromoform 1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.4-Dichlorobenzene		SURROGATE RECOVERING 601  Bromochloromethane 2-Bromo-1-Chloropro 1,4-Dichlorobutane 602 a,a,a,-Trifluorotol	opane

LAB # SYSTON	- BLANK		
CLIENT NAME			
SAMPLE ID			
		**********	
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 3/4/26 ANALYST: C INSTRUMENT D
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	J0
Bromomethane		Toluene	
Vinyl Chloride	·	Ethyl benzene	
Chloroethane	· · · · · · · · · · · · · · · · · · ·	Chlorobenzene	
Methylene chloride	***	1.4-Dichlorobenzene	
Trichlorofluromethane	·	1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane 1.1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans-1.3-Dichloropropen Trichloroethene Dibromochloromethane 1.1.2-Trichlorethane cis-1.3-Dichloropropene 2-Chloroethylvinyl ether Bromoform 1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.4-Dichlorobenzene	ρ	SURROGATE RECOVERING 601 Bromochloromethane 2-Bromo-1-Chloroprocled 1,4-Dichlorobutane 602 a,a,a,-Trifluoroto	opane

THE PERSONAL RESIDENCE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE

LAB #	eagent blunk		
CLIENT NAME			
SAMPLE ID			
EPA METHOD	DATE:	EPA METHOD	DATE: 34 86
601	ANALYST:	602	ANALYST: RP
	INSTRUMENT:	·	INSTRUMENT: Och
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	ماه
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride	· — · — · —	1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe	ne	M-Xylene	$\mathcal{L}$
Chloroform		0-Xylene	·
1.2-Dichlorethane			
1.1.1-Trichlorethane			ļ
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloroprop	ene	601	
Trichloroethene		Bromochloromethan	e
Dibromochloromethane		2-Bromo-1-Chlorop	ropane
1.1.2-Trichlorethane	· · · · · · · · · · · · · · · · · · ·	1,4-Dichlorobutan	
<u>cis-1.3-Dichloropropen</u>	e	602	
2-Chloroethylvinyl eth	er	a,a,a,-Trifluorot	oluene
Bromoform		].	
1.1.2.2-Tetrachloretha			
Tetrachlorethylene	<del> </del>		
Chlorobenzene		]	
1.3-Dichlorobenzene		1	
1 0 Disking bearing		_	
<u>l.2-Dichlorobenzene</u>		1	1

LAB # SYSTA-	Sean-			
CLIENT NAME				
SAMPLE ID				
*********		*****	*********	
EPA METHOD DATE: 3/4/8L		EPA METHOD		
601	ANALYST	1: 35%	602	ANALYST:
	INSTRUM	ENT:	lasing	INSTRUMENT:
COMPOUND	CONCENT	TRATION	COMPOUND	CONCENTRATION
JOIN JONE	(ug/	1	COM COMD	(ug/L)
	(ug/		<del></del>	(ug/2)
Chloromethane	שלים	Ì	Benzene	
Bromomethane	<del>-/-</del> 1		Toluene	
Vinyl Chloride	<del></del>		Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenz	
Trichlorofluromethane			1.3-Dichlorobenz	
1.1-Dichlorethene			1.2-Dichlorobenz	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane			V III ALML	
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECO	VERIES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene			Bromochloromet	hane
Dibromochloromethane			2-Bromo-1-Chlo	ropropane
1.1.2-Trichlorethane			1,4-Dichlorobu	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluo	rotoluene
Bromoform				
1.1.2.2-Tetrachlorethane				
Tetrachlorethylene				
Chlorobenzene				
1.3-Dichlorobenzene	/_			
1.2-Dichlorobenzene	<u> </u>			
1.4-Dichlorobenzene		<del></del>		
1				
I		_	<u></u>	

LAB # NOTCEM	BUNK			
CLIENT NAME				
SAMPLE ID				·
******		=====		
EPA METHOD 601	DATE: 3 Y ANALYST: INSTRUME	A*/	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTR (ug/L	- 1	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	^	وا	Benzene	
Bromomethane			Toluene	
Vinyl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	<del></del>
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane		<u> </u>		
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropage		L	SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropen	e	L	601	
Trichloroethene			Browochloromethane	·
Dibromochloromethane			2-Bromo-1-Chloropr	opane
1.1.2-Trichlorethane			l,4-Dichlorobutane	
cis-1.3-Dichloropropene	I		602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	luene
Bromoform			<b>]</b> .	
1.1.2.2-Tetrachlorethane			1	
Tetrachlorethylene			. ·	
Chlorobenzene				
1.3-Dichlorobenzene		<del></del>	1	
1.2-Dichlorobenzene				
1.4-Dichlorobenzene	<u> </u>			

CLIENT NAME				
SAMPLE ID				
************	7-7-7	<b>, -</b> 7	**********	**********
EPA METHOD	DATE:3/y/3L		EPA METHOD	DATE:
601	ANALYST:	C.	602	ANALYST:
	ANALYST: C INSTRUMENT: ba		relitte.	INSTRUMENT:
COMPOUND	CONCENTR		COMPOUND	CONCENTRATION
	(ug/L	)		(ug/L)
Chloromethane	^	10	Benzene	
Bromomethane		Ĭ	Toluene	
Vinvl Chloride		$I_{-}$	Ethyl benzene	
Chloroethane		I = I	Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1,2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroether	e		M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
l.l.l-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVER	IES:
Trans-1.3-Dichloroprope	ne		601	
Trichloroethene			Bromochloromethan	
Dibromochloromethane			2-Brome-1-Chlorop	
1.1.2-Trichlorethane			l,4-Dichlorobutan	e
cis-1.3-Dichloropropene	·		602	
<u>2-Chloroethylvinyl ethe</u>	r		a,a,a,-Trifluorot	oluene
Bromoform			4 ·	
1.1.2.2-Tetrachlorethar			4	
Tetrachlorethylene			· ·	
Chlorobenzene	—————		4	
1.3-Dichlorobenzene			4	
1.2-Dichlorobenzene	<del></del> <del></del>		=	
1.4-Dichlorobenzene	<u> </u>		_	

	VOA F	PRCIII.TC	
		KED O DI D	
LAB #	Eem Blush		<del> </del>
CLIENT NAME			
SAMPLE ID			
EPA METHOD		EPA METHOD	DATE:
601	DATE: 3/1/26 ANALYST: C, INSTRUMENT:	Fundate 602	ANALYS INSTRU
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCEN ( u
Chloromethane		Benzene	
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride	<b>Ø</b> 81	1.4-Dichlorobenzene	
Trichlorofluromethane 1.1-Dichlorethene	1840	1.3-Dichlorobenzene	
1.1-Dichlorethane		1.2-Dichlorobenzene P-Xvlene	
Trans-1.2-Dichloroethe	ene	M-Xylene	····
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane	<del></del>		
Carbon tetrachloride		-	
Bromodichlormethane 1.2-Dichloropropane		SURROGATE RECOVER	TEC.
Trans-1.3-Dichloropro	Dene	601	1159:
Trichloroethene	<u> </u>	Browochloromethan	ıe.
Dibromochloromethane		2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		l,4-Dichlorobutan	e
cis-1.3-Dichloroproper		602	
2-Chloroethylvinyl et	her	a,a,a,-Trifluorot	oluene _
Bromoform		4.	
1.1.2.2-Tetrachlorethe	ane	-	
Chlorobenzene		•	
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			
1.4-Dichlorobenzene			
l		}	
		I .	

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	3/5/86		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Z Recovery
	1	INSTRUMENT		D			
TEST METHOD	COMPOUND		********				*=======
EPA 601	EPA WP 483 COI	NC. 2	Ī		1		}
	AND WP 781 CON	C.3					
	Methylene Chlo		9.2				
	1.1-Dichloroet	Ī	10.0				
	Trans-1.2-Dich		5,4				
	Chloroform		43.0				
	1.2-Dichloroet	hane	27.6				
	1.1.1-Trichlore	ethane	14.3				
	Carbon Tetrach	loride	20.0				
	Bromodichlorom	ethane	7.9				
	1.2-Dichloropre	opane	8.0				
	Trichloroethen	e	22.2				
	Dibromochlorom	ethane	16.7				
	Bromoform		9.9		<u> </u>		
	1.1.2.2-Tetrac	hloroethane	10.0				
	Tetrachloroeth	ene	6.2				
	Chlorobenzene		8.2				
EPA 602	EPA - WP 879 C	ONC.1					1
	Benzene		30.7	34.3	117		
	Toluene		4.1	4.5	110		
	<u>Ethylbenzene</u>		11.5	13.3	107		
	P-Xylene	<del></del>	19.1	71.4	113		
	M-Xylene	<del></del>	42.6	50.9	130		
	0-Xylene	<del></del>	10.6	9.1	۷(٠		
EPA 608			(ug/g)			ļ l	
	Aroclor 1242		58.7	<b></b>			
	Aroclor 1260	· · · · · · · · · · · · · · · · · · ·	56.8	1	1		

ACCOMPANION ACCORDE ACCORDE DESCRIPTO DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CONTROL DE CON

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	3 4/86		SPIKED VALUE (ug/L)	Analyzed Value	% Recovery	Analyzed Value	Z Recovery
		INSTRUMENT		B	B	-G	G
TEST METHOD	COMPOUND	*******	********	*****			
EPA 601	EPA WP 483 CO	NC. 2					
	AND WP 781 CON	C.3					
	Methylene Chlo	ride	9.2	5.0	43	7.8	85
	1.1-Dichloroet	hylene	10.0	8.1	81	7.4	74
	Trans-1.2-Dich	loroethylene	5.4				,
	Chloroform		43.0	46.2	103	59,1	137
	1.2-Dichloroet	hane	27.6	20.9	76	20.3	32
	1.1.1-Trichlor	ethane	14.3	13,1	91	14.0	58
	Carbon Tetrach	loride	20.0	17.1	35	1922	¥5 96
	Bromodichlorom	ethane	7.9	17.1	34	8.6	109
	1.2-Dichloropr	opane	8.0	7.5	93	7.7	57
	Trichloroethen	e	22.2	13.7	34	22.9	103
	Dibromochlorom	ethane	16.7	14.4	76	14.3	36
	Bromoform	<del></del>	9.9	8.0	81	9.6	57
	1.1.2.2-Tetrac	hloroethane	10.0				
	Tetrachloroeth	ene	6.2				
	Chlorobenzene		8.2	8.2	100	812	100
EPA 602	EPA - WP 879 C	ONC.1					
	Benzene		30.7				<del></del>
	Toluene		4.1				
	<u>Ethylbenzene</u>		11.5				<del></del>
	P-Xylene		19.1		<u> </u>		
	M-Xylene		42.6				
	0-Xylene		10.6				
EPA 608			(ug/g)				
	Aroclor 1242	<del></del>	58.7	<u> </u>			
	Aroclor 1260		56.8	<u> </u>			

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	03/04/26 RP	SPIKED VALUE (ug/L)	Analyzed Value	7 Recovery	Analyzed Value	Z Recovery
	INSTRUMENT					
	DELONIS					
TEST						********
METHOD EPA 601	COMPOUND EPA WP 483 CONC. 2					
EFA 601	EPA WP 483 CONC. 2			}		
<del> </del>	AND WP 781 CONC.3		<u> </u>			·
	Methylene Chloride	9.2				ļ
·	1.1-Dichloroethylene	10.0	<u> </u>			
	Trans-1.2-Dichloroethylene	5.4		<del>  -</del>		
	Chloroform	43.0				
<del></del>	1.2-Dichloroethane	27.6	<del> </del>			
	1.1.1-Trichlorethane	14.3				
	Carbon Tetrachloride	20.0				
	Bromodichloromethane	7.9				
	1.2-Dichloropropane	8.0				
	Trichloroethene	22.2				
	Dibromochloromethane	16.7				
	Bromoform	9.9				
	1.1.2.2-Tetrachloroethane	10.0				
	Tetrachloroethene	6.2				
	Chlorobenzene	8.2				
EPA 602	EPA - WP 879 CONC.1					
	Benzene	30.7	34. 8	113		
	Toluene	4.1	46	113-		
	Ethylbenzene	11.5	13,414	11.3		
	P-Xylene	19.1	22.2	1/3		
	M-Xylene	42.6	51.	120		
	0-Xylene	10.6	9.22	57		
EPA 608		(ug/g)				
	Aroclor 1242	58.7				
	Aroclor 1260	56.8				

#### SPIKE RECOVERY

1,1,1-Trichloroethane	
Bromomethane   Vinyl chloride   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chlorofluoromethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroform   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane   Chloroethane	ZR.
Viny1 chloride         Chloroethane           Methylene chloride         8.70         0.37         9.2         9/           Trichlorofluoromethane         1,1-Dichloroethene         7.3         10.0         7.3           1,1-Dichloroethane         1,1-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloropropane         1,2-Dichloropropane         1,2-Dichloropropane         1,2-Dichloropropane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane         1,2-Dichloroethane<	
Chloroethane         8.70         0.37         9.2         9/           Trichlorofluoromethane         1,1-Dichloroethene         7.3         10.0         7.3           1,1-Dichloroethene         7.3         10.0         7.3           1,1-Dichloroethane         0.2         0.99         5.4         9.7           1,1-Dichloroethane         0.2         0.99         5.4         9.7           Chloroform         0.0         0.99         5.4         9.7           1,2-Dichloroethane         0.5         0.7         0.9           1,1,1-Trichloroethane         0.0         1.7         1.4           Carbon Tetrachloride         0.9         0.0         1.5           Bromodichloroemethane         9.0         7.9         1.2           1,2-Dichloropropane         8.6         7.0         10.7           Trichloroethene         0.0         32.3         30.2         15.           Dibromochloromethane         11.7         16.7         71           1,1,2-Trichloroethane         11.7         16.7         71	
Methylene chloride         8.73         0.37         9.2         9/           Trichlorofluoromethane         1,1-Dichloroethene         7.3         10.0         7.3           1,1-Dichloroethane         1,1-Dichloroethane         10.0         7.3         10.0         7.3           1,1-Dichloroethane         6.2         0.99         5.4         9.7         9.7           Chloroform         6.0         43.0         143         143         143           1,2-Dichloroethane         16.4         0.07         14.3         114         14           Carbon Tetrachloride         23.9         20.0         115         15         15           Bromodichloroemethane         4.0         7.0         10.7         10.7         10.7         10.7         11.1         10.7         71         10.7         11.1         11.1         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2         11.2	
Trichlorofluoromethane  1,1-Dichloroethene 7.3	
Trichlorofluoromethane  1,1-Dichloroethene 7.3	
1,1-Dichloroethane  trans-1,2-Dichloroethene 6.2 0.99 5.4 97  Chloroform 61.0 43 o 143  1,2-Dichloroethane 35.8 37.0 94  1,1,1-Trichloroethane 16.4 0.07 14.3 114  Carbon Tetrachloride 32.9 20.0 115  Bromodichloroemethane 9.7 7.9 132  1,2-Dichloropropane 8.6 7.0 107  Trichloroethene 07.0 32.3 33.2 170  Dibromochloromethane 11.1 16.7 71	
1,1-Dichloroethane       0.99 5.4 97         1,2-Dichloroethane       0.99 5.4 97         1,2-Dichloroethane       0.00 143         1,1,1-Trichloroethane       16.4 0.07 14.3 114         Carbon Tetrachloride       0.01 14.3 114         Bromodichloroemethane       0.7 7.9 13.2 15         1,2-Dichloropropane       0.0 32.3 33.3 15         Trichloroethane       0.0 32.3 33.3 15         Dibromochloromethane       11.1 11.2-Trichloroethane	-
Chloroform   GI.U   H3 0   H3   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0   H3 0	
Chloroform       GI.U       43 o       143         1,2-Dichloroethane       35.8       37.U       94         1,1,1-Trichloroethane       16.4       0.07       14.3       114         Carbon Tetrachloride       23.9       20.0       115         Bromodichloroemethane       9.7       7.9       132         1,2-Dichloropropane       8.6       7.0       107         Trichloroethene       11.1       10.7       71         Dibromochloromethane       11.1       10.7       71         1,1,2-Trichloroethane       11.1       10.7       71	
1,2-Dichloroethane       35.8       37.0       94         1,1,1-Trichloroethane       16.4       0.07       14.3       114         Carbon Tetrachloride       23.4       23.0       115         Bromodichloroemethane       9.7       7.9       132         1,2-Dichloropropane       8.6       7.0       107         Trichloroethene       11.1       10.7       71         Dibromochloromethane       11.1       10.7       71         1,1,2-Trichloroethane       11.1       10.7       71	
1,1,1-Trichloroethane	
Carbon Tetrachloride         23.9         20.0         15           Bromodichloroemethane         9.7         7.9         132           1,2-Dichloropropane         8.6         7.0         107           Trichloroethene         10.0         32.3         20.2         150           Dibromochloromethane         11.1         10.7         71           1,1,2-Trichloroethane         11.1         10.7         71	
Bromodichloroemethane         9.7         7.9         132           1,2-Dichloropropane         8.6         7.0         107           Trichloroethene         10.0         32.3         33.2         150           Dibromochloromethane         11.1         10.7         71           1,1,2-Trichloroethane         11.1         10.7         71	
1,2-Dichloropropane       8.6       1,0       107         Trichloroethene       10.0       32.3       33.2       10         Dibromochloromethane       11.1       10.7       71         1,1,2-Trichloroethane       11.1       10.7       10.7	
Trichloroethene (7.0 32.3 33.2 151 1.1,2-Trichloroethane 11.1 10.7 71	
Dibromochloromethane     1.7	
1,1,2-Trichloroethane	
aid 1 2 Pichlamana	
cis-1,2-Dichloropropene	
2-Chlorethylvinyl ether	
Bromoform   11.3   9.9   113	
1,1,2,2-Tetrachloreothane	
Tetrachlorethylene 0,7 63	
Chlorobenzene 9.1 7.2 110	
1,3-Dichlorobenzene	
1,2-Dichlorobenzene 5,03	
1,4-Dichlorobenzene	

SSR = Spiked Sample Result

SR = Sample Result

6 272

SA = Spike Added

AND PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O

#### SPIKE RECOVERY

EPA Method 602				
Volatile Organics	3   5	71		
SAMPLE # 860 2003 - 06 C UNITS PANY 860	3   5   D C1			
COMPOUND	SSR	SR	SA	7R
Benzene	35.5		327	116
Toluene	5.42	1.64	41	92
Ethyl benzene	12.8		11.5	112
1,4-Dichlorobenzene				
1,3-Dichlorobenzene				
1,2-Dichlorobenzene				
O-Xylene	9.1		10.6	86
M-Xylene	77.7		42.6	182
P-Xylene	72.1		19.1	116
Chlorobenzene				

#### # BAD INTEGAMEN

SSR = Spiked Sample Result

SR = Sample Result

SA = Spike Added

#### DUPLICATE ANALYSIS

EPA Method 601						
Volatile Organics						
COMPOUND	RUN#1	RUN#2	RPD	RUN#1	RUN#2	RPD
Chloromethane	au	ND.	N.C.			
Bromomethane	,		1			
Vinyl chloride						
Chloroethane						
Methylene chloride						
Trichlorofluoromethane						
1,1-Dichloroethene						
1,1-Dichloroethane						
trans-1,2-Dichloroethene						
Chloroform						
1,2-Dichloroethane	1					
1,1,1-Trichloroethane						
Carbon Tetrachloride	,					
Bromodichloroemethane						
1,2-Dichloropropane						
Trichloroethene						
Dibromochloromethane		· · · · · · · · · · · · · · · · · · ·				
1,1,2-Trichloroethane						
cis-1,2-Dichloropropene						
2-Chloroethylvinyl ether						
Bromoform		i i	<del> </del>			
1,1,2,2-Tetrachloreothane		<del></del>				
Tetrachlorethylene		·-····································				
Chlorobenzene		<del> </del>				
1,3-Dichlorobenzene						
1,2-Dichlorobenzene			<u> </u>			
1,4-Dichlorobenzene	7		7			

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$ 

RPD= Relative Percent Difference



LAB #: 8663000-01A
SAMPLE ID: SC(172
DATE: 3-4-86
INSTRUMENT: G
601/8010
BROMOCHLOROMETHANE: 99
2-BROMO-1-CHLOROFROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: SCT 3(C)-C)A
SAMPLE ID: 86CRC7
DATE: 3-4-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 155
2-BROMO-1-CHLOROPROPANE: 75,83
,
602/8020
a,a,a-TRIFLUOROTOLUENE:

ASSESSED RECOGNICATION CONSISSES EXECUTED RECOGNICATION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE

lab #: <u>8008002-03A</u>
sample id: $S((C)XS$
DATE: 3-4-86
INSTRUMENT: B
601/8010
BROMOCHLOROMETHANE: 107
2-BROMO-1-CHLOROPROPANE: 174
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:



LAB #: SUTBOOK LUA
SAMPLE ID: SUCA
DATE: 3-4-86
INSTRUMENT: B
601/8010
BROMOCHLOROMETHANE: 112
2-BROMO-1-CHLOROPROPANE: 129
602/8020
a,a,a-TRIFLUOROTOLUENE:

LAB #: SUCBUCD-CEA
SAMPLE ID: SCOOLO
DATE: 3-4-80
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 1,00
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:

LAB #: SCESCES-CUA
SAMPLE ID: SCORIL
DATE: 3-4-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: //(C
2-BROMO-1-CHLOROPROPANE: X
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: 3003-07-
SAMPLE ID: SUCISIO
DATE: 3-4-80
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 15
2-BROMO-1-CHLOROPROPANE: 46
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: SUCBCO-CSA
SAMPLE ID: TRIP BLACK
DATE: 34-80
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 4
2-BROMO-1-CHLOROPROPANE: 49
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

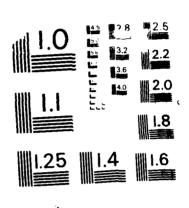


LAB #: SCCSCCD-CDC
SAMPLE ID: SCOSCT
DATE: 3-4-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: SUCBCCA-CBC		
SAMPLE ID: Sur 2018		
DATE: 3-4-SC		
INSTRUMENT:		
601/8010		
601/8010		
BROMOCHLOROMETHANE:		
2-BROMO-1-CHLOROPROPANE:		
602/802 <b>0</b>		
a,a,a-TRIFLUOROTOLUENE: ()		

INSTALLATION RESTORATION PROGRAM PHASE 2
CONFIRMATION/QUANTIFICATION STAG (U) RADIAN CORP
AUSTIN TX DEC 87 F33615-83-D-4881 AD-A198 446 4/6 UNCLASSIFIED F/G 24/7



MICROCOPY RESOLUTION TEST CHART

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STATE SANASA COCCESSOR

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LAB #: 8613002-CUC
SAMPLE ID: SUCE SCO
DATE: 3-4-80
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: 36(3002-050)
SAMPLE ID: SCORIC
DATE: 3-5-86
INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: (C)

LAB #: 3(003003-CCC
SAMPLE ID: SUCOII
DATE: 3-5-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:

LAB #: SUBCCA-CAC
SAMPLE ID: SCOOLS
DATE: 3-5-86
INSTRUMENT:
(01/0010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 4

LAB #: SCORCO-CRB  SAMPLE ID: TRIP RIANK  DATE: 3-5-86  INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

# PAS

EPA 601: 860215, 860216, 860213, 860214, 860217 EPH 602 . 360215, 860216, 860213, 860214, 860217

HC-FUELS . 960213 , 860217 , 860215 , 860214 OIL! GREASE: 860215 860214 860217 860213
CHAIN OF CUSTODY RECORD

ALSC. (2) TRIP BLANKS

METALS: 860215, 860214, 860213

FIELD BLANKS	860216 860213	Field Sample No.
Company Sampled Address GENER	· · · · · · · · · · · · · · · · · · ·	+ PHANT 4
Sample Point Description GROUND	WATER	
Stream Characteristics:		
Temperature	Flow	pH
Visual Observations/Comments		
Collector's Name F. SNYDER	Date/Time Samp	oled
Amount of Sample Collected (30) UOA	113 (8) QT. Mason Jans (3	3) 500 ml Plastic
Sample Description	5R	
Sample Description <u>GPOUNDWHT</u> Store at: □ Ambient □ 5°C □ -	10°C	
Caution · No more sample available		
Other Instructions - Special Handling -	Hazards	
🔀 Hazardous sample (see below)	□ Non·haz	ardous sample
<b>D</b> Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
☐ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	□ Biological	☑ Carcinogenic · suspect
□ Caustic	☐ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain of Possessio	n:	
Organization Name RADIAN		
Received By	Date Receive	d Time
Transported By Tred Sundi	Lab Sample No. 🔝	<u>4 - 0 3 5033</u>
Comments		
Inclusive Dates of Possession	1/86	
1 13		
Received By	Date Receive	d Time
Organization Name Received By	Lab Sample No	1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x
Comments		
Inclusive Dates of Possession		
Organization Name		
Received By		
Transported By		
Comments		
Inclusive Dates of Possession		

Volatile Organics

DETECTION	LIMITS	450	<b>.</b> ^	·
		<b>#</b> XC(	130	03

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WEIROD		DE	THOD TECTION
COMPOUND	-C1 2-18	-(3,-(3	
Chloromethane	Cics	CICE	
Bromomethane	1.18	1.18	
Vinyl Chloride	6.18	(.18	
Chloroethane	0.52	(.52	
Methylene Chloride	0.51	(.25)	
Trichlorofluoromethane	0.10	CAIC	
l,1-Dichloroethene	0.13	0.13	
1,1-Dichloroethane	C, L) 7	E.U.+	
Trans-1,2-Dichloroethene	0.10	0.10	
Chloroform	0,05	C. C5	
1,2-Dichloroethane	(.03	6.03	
l,1,1-Trichloroethane	6.03	CICB	
Carbon Tetrachloride	C.16	¢.12	
Bromodichloromethane	CJC	1,10	
1,2-Dichloropropane	C,C4	Cicy	
Trichloroethene	6.12	6112	
Dibromochloromethane	0.09	0,09	
2-Chloroethylvinyl Ether	0.13	6.3	
Brcmoform	0,80	0.30	
Tetrachloroethene	0.03	0.03	
Chlorobenzene	0.95	0,25	
1,3-Dichlorobenzene	0.30	6.30	
1,2-Dichlorobenzene	(.15	6.15	
1,4-Dichlorobenzene	6.94	(A)	

ETECTION LIMITS

VOLATILE ORGANICS

METHOD

-4863003	DETECTION LIMIT									
	-07	-	0.	9:	1.6	<u>-</u>	G	2)(		
	@)- <u></u> 4.10-	6,3	C,3	6.3	ر. د.ع	6.3	כ'ת	٦.0		
	COMPOUND	BENZENE	TOLUENE	ETHYLBENZENE	CHLOROBENZENE	1,4-DICHLOROBENZENE	1,3-DICHLOROBENZENE	1,2-DICHLOROBENZENE		

LAB # SKIG-	SUMIC			
CLIENT NAME				
SAMPLE ID				
	****			
EPA METHOD	DATE:3		EPA METHOD	DATE:
601	ANALYST	: 334	602	ANALYST:
	INSTRUM	ENT: Y	min	INSTRUMENT:
COMPOUND	CONCENT		COMPOUND	CONCENTRATION
COMPOUND			CORPOUND	(ug/L)
<del></del>	(ug/	L)		(ug/L)
Chloromethane	•	No	Benzene	
Bromomethane		1-	Toluene	
Vinyl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethen	e		M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane		<b></b>		
1.2-Dichloropropane		ļ	SURROGATE RECOVER	IES:
Trans-1.3-Dichloroprope			601	
Trichloroethene		<del> </del>	Bromochloromethan	
Dibromochloromethane			2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		<del> </del>	1,4-Dichlorobutan	e
<u>cis-1.3-Dichloropropene</u>		<u> </u>	602	_
2-Chloroethylvinyl ethe	I.		a,a,a,-Trifluorot	oluene
Bromoform				
1.1.2.2-Tetrachlorethan		<del></del>	4	
<u>Tetrachlorethylene</u>			-	
Chlorobenzene			4	
1.3-Dichlorobenzene			1	
1.2-Dichlorobenzene			-	
1.4-Dichlorobenzene	V		1	

LAB # / MEGAT BUM	<u>                                     </u>		
CLIENT NAME			
SAMPLE ID			
************		*********	*******
EPA METHOD 601	DATE: 3 1 1 ANALYST: CO INSTRUMENT: Ch	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	<u> </u>
Methylene chloride	0.51	1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropen	e	601	
Trichloroethene		Browochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropr	
1.1.2-Trichlorethane		l,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	luene
Bromoform			
1.1.2.2-Tetrachlorethane			
Tetrachlorethylene			
Chlorobenzene			
1.3-Dichlorobenzene		1	
1.2-Dichlorobenzene			
1.4-Dichlorobenzene		.]	

LAB #	- BUNK		
CLIENT NAME	1		
SAMPLE ID			
***********	*********		
EPA METHOD	DATE:	EPA METHOD	DATE: 3/5/26
601	ANALYST:	602	ANALYST: JS
	INSTRUMENT:		INSTRUMENT:
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)		(ug/L)
Chloromethane		Benzene	$\sim 0$
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1,4-Dichlorobenzene	
Trichlorofluromethane	·	1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroether	ne	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane		1	
1.1.1-Trichlorethane			
Carbon tetrachloride		1	
Bromodichlormethane			
1.2-Dichloropropane	<del></del>	SURROGATE RECOVER	IES:
Trans-1.3-Dichloroprope		601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropi	
1.1.2-Trichlorethane		1,4-Dichlorobutane	e
cis-1.3-Dichloropropen		602	
2-Chloroethylvinyl ethe	er	a,a,a,-Trifluoroto	oluene
Bromoform		4	
1.1.2.2-Tetrachloretha		4	
<u>Tetrachlorethylene</u>		4	
Chlorobenzene	<del></del>	4	
1.3-Dichlorobenzene		4	
1.2-Dichlorobenzene	··	-	
1.4-Dichlorobenzene	<del></del>	-	
		1	

LAB #	WASKIT BUNK		
CLIENT NAME			
SAMPLE ID			
EPA METHOD	DATE:	EPA METHOD	DATE: 3/5/8L
601	ANALYST:	602	ANALYST: DANY
	INSTRUMENT:		INSTRUMENT: 100
COMPONIE			
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)		(ug/L)
		_	10
Chloromethane		Benzene	$\sim \sim \sim$
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethan	ne	1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroet	hene	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane	<u> </u>		į
Carbon tetrachloride	<u> </u>		
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropr	copene	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane	2	2-Bromo-1-Chloropro	opane
1.1.2-Trichlorethane	<u> </u>	1,4-Dichlorobutane	
cis-1.3-Dichloroprop	ene	602	
2-Chloroethylvinyl e		a,a,a,-Trifluoroto	luene
Bromoform			
1.1.2.2-Tetrachloret	hane		
<u>Tetrachlorethylene</u>	<u> </u>		
Chlorobenzene			
1.3-Dichlorobenzene			
1.2-Dichiorobenzene		;   	
1.4-Dichlorobenzene		1	

LAB # 543	Tone BU	ANIC		
CLIENT NAME				
SAMPLE ID				
**********			******	
EPA METHOD 601	DATE: 3/4 ANALYST: INSTRUMEN	136	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRA (ug/L)		COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Un	Benzene	
Bromomethane			Toluene	
Vinvl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1,2-Dichloroethene		<u> </u>	M-Xylene	<del></del>
Chloroform			0-Xylene	
1.2-Dichlorethane	777			
1.1.1-Trichlorethane		ļ		
Carbon tetrachloride	<del> </del>	ļ		
Bromodichlormethane				
1.2-Dichloropropane		L	SURROGATE RECOVER	IES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene			Bromochloromethan	
Dibromochloromethane			2-Brome-1-Chlorop	
1.1.2-Trichlorethane			l,4-Dichlorobutan	e
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluorot	oluene
Bromoform			]	
1.1.2.2-Tetrachlorethane				
<u>Tetrachlorethylene</u>			1	
Chlorobenzene			1	
1.3-Dichlorobenzene			1	
1.2-Dichlorobenzene			•	
1.4-Dichlorobenzene			.‡	

LAB #   CARC	SAN BLANK		
CLIENT NAME			
SAMPLE ID			
*********	*====		
EPA METROD 601	DATE: SIVES ANALYST: CINSTRUMENT: HIS	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	No	Benzene	
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M W1	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloropropen	e	601	
Trichloroethene		Bromochloromethan	
Dibromochloromethane		2-Bromo-1-Chlorop	ropane
1.1.2-Trichlorethane		1,4-Dichlorobutane	e
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	oluene
Bromoform		-	
1.1.2.2-Tetrachlorethane		-	
Tetrachlorethylene		1	
Chlorobenzene		1	
1.3-Dichlorobenzene			
1.2-Dichlorobenzene	<del></del>	1	
1.4-Dichlorobenzene		•	
1.4-Dichlorobenzene			

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	3/5/86		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	% Recovery
	I	NSTRUMENT		D	D		
TEST METHOD	COMPOUND		********	******			
EPA 601	EPA WP 483 CON	C. 2					
	AND WP 781 CONC	.3					
	Methylene Chlor	ide	9.2				
	1.1-Dichloroeth	ylene	10.0	<u> </u>			
	Trans-1.2-Dichl	oroethylene	5.4				
	Chloroform		43.0	ļ			
	1.2-Dichloroeth	ane	27.6	ļ			
	1.1.1-Trichlore	thane	14.3				
	Carbon Tetrachl	oride	20.0				
	Bromodichlorome	thane	7.9				
	1.2-Dichloropro	pane	8.0				
	Trichloroethene	·	22.2				ļ
	Dibromochlorome	thane	16.7				
	Bromoform		9.9				
	1.1.2.2-Tetrach	loroethane	10.0				
	Tetrachloroethe	ne	6.2				ļ
	Chlorobenzene		8.2				
EPA 602	EPA - WP 879 CO	NC.1					Ì
	Benzene		30.7	34.3	112		
	Toluene		4.1	4.5	110		
	Ethylbenzene		11.5	13.3	107		
	P-Xvlene		19.1	21.4	112		
	M-Xylene		42.6	50.9	120		
	0-Xylene		10.6	9.1	90		
EPA 608			(ug/g)				
	Aroclor 1242		58.7	<del> </del>	-		
	Aroclor 1260		56.8	<u> </u>		1	!

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	3 4 86		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Z Recovery
	1	NSTRUMENT		B	B	G	G
TEST METHOD	COMPOUND					****	
EPA 601	EPA WP 483 CON	C. 2					
	AND WP 781 CONC	.3					
	Methylene Chlor		9.2	5.0	43	7.8	85
	1.1-Dichloroeth		10.0	8.1	81	7.4	74
	Trans-1.2-Dichl		5,4				200
	Chloroform		43.0	46.2	108	59.1	137
	1.2-Dichloroeth	ane	27.6	20.9	76	20.7	22
	1.1.1-Trichlore	thane	14.3	13,1	71	14,0	98
	Carbon Tetrachl	oride	20.0	17.(	35	1922	75 86
	Bromodichlorome	thane	7.9	7.1	39	8.6	109
	1.2-Dichloropro	pane	8.0	7.5	93	7.7	97
	Trichloroethene	·	22.2	13.7	34	22.9	103
	Dibromochlorome	thane	16.7	14.4	.५७	14.3	86
	Bromoform	<del></del>	9.9	8.0	81	9.6	97
	1.1.2.2-Tetrach	loroethane	10.0				
	Tetrachloroethe	ne	6.2		<del></del>		
	Chlorobenzene		8.2	8,2	700	8.2	100
EPA 602	EPA - WP 879 CO	NC.1					
	Benzene		30.7	-			
	Toluene		4.1				
	<b>Ethylbenzene</b>		11.5	<b></b>			
	P-Xylene	<del></del>	19.1	<b></b>			
	M-Xylene		42.6				
	0-Xylene		10.6	-			
EPA 608			(ug/g)				
	Aroclor 1242		58.7	ļ			
	Aroclor 1260	<del></del>	56.8	<u> </u>			

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	3/5/26		SPIKED VALUE (ug/L)	Anglyzed Value	Z Recovery	Analyzed Value	Z Recovery
	INS	TRUMENT		G	6		
TEST METHOD	COMPOUND		*********		*********	****	
EPA 601	EPA WP 483 CONC. AND WP 781 CONC.3			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Methylene Chlorid		9.2	9.2	100		
	1.1-Dichloroethy	•	10.0	8.9	89		
	Trans-1.2-Dichlor						
	Chloroform		43.0	61.6	l43		
	1.2-Dichloroethau	.e	27.6	22.8	82		
	1.1.1-Trichloreth	ane	14.3	14.1	99		
	Carbon Tetrachlo		20.0	19.7	98		
	Bromodichlorometh	iane	7.9	8,0	101		
	1.2-Dichloropropa	ine	8.0	7.2	90		ļ
	Trichloroethene		22.2	31.5	97		
	Dibromochloromet	nane	16.7	12.8	77		
	Bromoform		9.9	8.5	86		
	1.1.2.2-Tetrachlo	roethane	10.0				
	Tetrachloroethen	·	6.2		<b> </b>		<del> </del>
	Chlorobenzene		8.2	8.6	104		<u> </u>
EPA 602	EPA - WP 879 CON	C.1					]
	Benzene	<del>, , ,</del>	30.7	<u> </u>	-		ļ
	Toluene		4.1	<u> </u>			
	Ethylbenzene		11.5				
	P-Xylene		19.1	<del>}</del>			<del>                                     </del>
	M-Xylene		42.6	<del> </del>			<del> </del>
	O-Xylene		10.6		<del>                                     </del>		<del>                                     </del>
EPA 608			(ug/g)				
	Aroclor 1242		58.7	<del> </del>			
	Aroclor 1260		56.8	<u> </u>	<u> </u>		<u> </u>

#### SPIKE RECOVERY

EPA METHOD 601 Volatile Organics	16030 RAM 260	03-04A 4 0 815			3 5 26 Nr G-			
COMPOUNDS	SSR	SR	SA	Z R	SSR	SR	SA	Z R
Chloromethane								
Bromomethane								
Vinyl chloride		1	1	<del> </del>			<del></del>	
Chloroethane		<del> </del>		1	<del>  -</del>	<del></del>		
Methylene chloride	8.30	0.73	90	82	<del>  </del>			
Trichlorofluoromethane	0.2	-	1.0					
l,1-Dichloroethene	6-2		1000	6.5			<del>-  </del>	<del></del>
l,1-Dichloroethane		<u> </u>		<del>                                     </del>				
trans-1,2-Dichloroethen	4.4	<del>                                     </del>	5,4	81				
Chloroform	564		43	131				<del></del>
1,2-Dichloroetbane	23.2	<del>                                     </del>	27.6	8Y		<del></del>		
l,1,1-Trichloroethane	153	•	14-3	_		<del></del>		
Carbon Tetrachloride	20.5		20.0					
Bromodichloroemethane	9.0		7,9	114				
1,2-Dichloropropane	8.8		8,0	1/9				
Trichloroethene	24.3		33.>	109		<del></del>	<del></del>	
Dibromochloromethane	14.4		16.7	86				
,1,2-Trichloroethane	10-1		101	16		<del></del>		
cis-1,2-Dichloropropene						<del></del>		
2-Chlorethylvinyl ether						1		
Bromoform	10.8		9.9	109		<del></del>		
,1,2,2-Tetrachloreothan	e		10.0	• • •				
etrachlorethylene			6.0			<u></u>		
hlorobenzene	9.3		7.2	114		<del></del> -		<del></del>
,3-Dichlorobenzene							_	<del></del>
,2-Dichlorobenzene						<del></del>	<del></del>	
,4-Dichlorobenzene						<del></del>		

SSR = Spiked Sample Result

SR = Sample Result

SA = Spike Added

#### SPIKE RECOVERY

EPA Method 602				
Volatile Organics				
SAMPLE # 8603063-046 UNITS Arm 4 8608	3/5/s	L		
СОМРОИНО	SSR	SR	SA	ZR
Benzene	36.8		327	130
Toluene	5,6	1.46	4.1	100
Ethyl benzene	13.4		11.5	116
1,4-Dichlorobenzene	<u> </u>			<u> </u>
1,3-Dichlorobenzene	<u> </u>			
1,2-Dichlorobenzene		<u> </u>	<u> </u>	<u> </u>
O-Xylene	9.4	<u> </u>	10.6	89
M-Xylene	54.2		43.6	197
P-Xylene	23.0	<u>                                     </u>	19.1	190
Chlorobenzene				

SSR = Spiked Sample Result

SR = Sample Result

SA = Spike Added



## 34C3C3-C5A 8LC216

#### DUPLICATE ANALYSIS

Volatile Organics						
COMPOUND	RUN#1	RUN#2	RPD	RUN#1	RUN#2	RP
Chloromethane						
Bromomethane						
Vinyl chloride						
Chloroethane				,		
Methylene chloride					<del></del>	
Trichloro: luoromethane						
l,1-Dichloroethene	3,9	5.3	30.4			
l,1-Dichloroethane	<u> </u>					
trans-1,2-Dichloroethene						
Chloroform	0.36	0.56	43.5			
1,2-Dichloroethane	<u> </u>	0.20	90,0		<del></del>	
l,l,l-Trichloroethane	16.7	21.5	25.1	<del></del>		
Carbon Tetrachloride	14.1		1-12-13			
Bromodichloroemethane			† <u>†</u>			
1,2-Dichloropropane			† — — †			
Trichloroethene	8.C	10.5	,27.C			
Dibromochloromethane	3.0		J-1.C	<del></del>		
1,1,2-Trichloroethane	<del></del>	<u> </u>	<del> </del>	<del></del>		
cis-1,2-Dichloropropene			<del> </del>			
2-Chloroethylvinyl ether	<del></del>		<del> </del>			
Bromoform		<del></del>	<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·		
l,1,2,2-Tetrachloreothane			<del> </del>			
Tetrachlorethylene	C.11	C.19	53.3			
Chlorobenzene	<u> </u>					
1,3-Dichlorobenzene						
1,2-Dichlorobenzene			<del>                                     </del>			_
1,4-Dichlorobenzene		<del></del>	1			

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$ 

RPD= Relative Percent Difference

* Did not Confirm



LAB #: X17303-CIA
SAMPLE ID: SUCO13
DATE: 3-5-86
INSTRUMENT: C
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE: 1/4
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:



RECONSTRUCTION CONTRACT PROPERTY VILLENAMENTALIAN CONTRACT PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERTY PROPERT

LAB #: SU(3(3-(NA)
SAMPLE ID: FIELD BLANK
DATE: 3-4-86.
INSTRUMENT: G
601/8010
BROMOCHLOROMETHANE: 100
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:



LAB #: SUC303-03A
SAMPLE ID: SCCOLU
DATE: 3-4-86 -
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 109
2-BROMO-1-CHLOROPROPANE: 103
602/8020
a,a,a-TRIFLUOROTOLUENE:



LAB #: SUCSCES-CHA
SAMPLE ID: SCCO15
DATE: 3-5-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 98
2-bromo-1-chloropropane: <u>(</u>
602/802 <b>0</b>
a.a.a-TRIFLUOROTOLUENE:



LAB #: SCC303-C5A
SAMPLE ID: SCOPILO
DATE: 3-5-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE: 118,127
2-BROMO-1-CHLOROPROPANE: 17 112
,
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:



LAB #: 2003003-01A
SAMPLE ID: FIELD BLACK
DATE: 3-5-SG
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:     C
2-BROMO-1-CHLOROPROPANE: 122
602/802 <b>0</b>
a.a.a-TRIFLUOROTOLUENE:



LAB #: SU(3C(3-C74)
SAMPLE ID: SCCQ17
DATE: 3-5-86
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE: 118
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:



LAB #: SICBCB-CBA
SAMPLE ID: TRIP BLACK
DATE: 3-5-86-
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:



LAB #: 8UCBCCB-CIC
SAMPLE ID: SUCOIS
DATE: 3-5-8(r
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:



LAB #: 300303-020.
SAMPLE ID: FIELD BANK
DATE: 3-5-80
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:  C7

LAB #: 341303-130
SAMPLE ID: 500214
DATE: 35-86
INSTRUMENT: D
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: \(\(\frac{1}{7}\)



LAB #:8(C3C3-C4C
SAMPLE ID: SCOC 215
DATE: 3-5-80-
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:  ( L)



LAB #: 8003003-650
SAMPLE ID: SCCSIC
DATE: 3-5-S(C-
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: 1



LAB #: <u>SUCCBCCB-CUC</u>
SAMPLE ID: TIELD PLAKE
DATE: 3-586-
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: 10 10



LAB #: 5(113(13-17C)
SAMPLE ID: SUC 917
DATE: 3-5-86-
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: 97-



LAB #: 366363-CSB
SAMPLE ID: TRIP CLANK
DATE: 3-5-54
INSTRUMENT:
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:

EPA 601:860172,860212,560207,560211,860208,860210,860209 EPH 602 . 860212, 860207, 860211, 860209, 860210 860209

HC-FUELS: \$60210, \$60205, \$60211, \$60207, \$60212, \$60209 OIL (GREASE: \$60210, \$60212, \$60211, \$60208, \$60207, \$60209 CHAIN OF CUSTODY RECORD

WELLES . 260209, 800	216,860210,860211,360212,	
2 TRIPBLANKS	INCLUDIED	

2 TRIP BLAN	INCS INCRUDED F	Field Sample No		
Company Sampled Address GENER				
Sample Point Description <u>GROUND</u>	WATEK.			
Stream Characteristics:				
Temperature				
Visual Observations/Comments				
Collector's Name F. SNYDER	Date/Time Sampled	2/28/86		
Amount of Sample Collected (2 <b>6</b> ) 16	A's, (12) mason faces ( $a$ ts.), ( $a$	) from some Plantic		
Sample Description <u>GROUND WAT</u>	ER			
Sample Description <u>Ground iJAT</u> Store at: □ Ambient □ 5°C □ -	10°C ☑ Other <u> </u>			
	Hazards			
☑ Hazardous sample (see below)	☐ Non-hazardo			
<b>⊠</b> Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)		
□ Pyrophoric	☐ Lachrymator	☐ Shock sensitive		
□ Acidic	☐ Biological			
□ Caustic	☐ Peroxide	☐ Radioactive		
□ Other				
Sample Allocation/Chain of Possessio Organization Name <u>LADIAN Co</u>	RP.			
Received By	Date Received	Time		
Transported By	Lab Sample No.			
nclusive Dates of Possession 2/25	186 - 3/1/86			
Organization Name Received By				
Received By	Date Received	Time		
ransported By	Lab Sample No.			
Comments				
nclusive Dates of Possession				
Organization Name				
leceived By	Date Received	Time		
ransported By				
comments				
nclusive Dates of Possession				

Form VI

Q. C. Report No. 3

DUPLICATES

LAB NAME Radian

DATE 3-31-86

Plant 4 CASE NO. 8603004-03

Matrix Water Control Limit Sample(S) Metals: Aluminum 2. Antimony 3. Arsenic 4. Barium 5. Servllium 6. Cadmium 7. Calcium 8. Chromium 9. Cosals. 10. Copper 11. Iron 12. Lead 13. Magnesium 14. Manganese | 15. Mercury 16. Nickel 17. Potassium | 18. Selenium X1).006 19. Silver 20. Sodium 21. Thallium 22. Tin 23. Vanadium 24. Zinc Other: Cyamide

8 - 12

[✓] Out of Control

To be added at a later date.

² RPD =  $[(S + D)/((S + D)/2)] \times 100$ 

^{1 -} Non calculable RPD due to value(s) less than CRDL

⁺indicates value is less than 5 x 1 dl

#### Form V

		101.11					
	•	Q. C. Report No. 3  SPIKE SAMPLE RECOVERY  Plant 4					
0		SPIKE SAMPLE					
lab name <u>Ra</u>		CASE NO. <u>8003004-10</u> EPA Sample No					
DATE	-31-86		Lab Sar	mple ID No. 7	anal		
			Unics	110/ml			
-		Hatrix Wat					
Compound	Control Limit	Spiked Sample   Result (SSR)	Sample Result (SR)	Spiked Added (SA)	TR!		
iesals:		1	1	112324 (317)	1		
. Aluminum	75-125			1	1		
Ancimony	1 •			<u> </u>	<del></del>		
3. Arsenic	1 •		<u>.                                    </u>	\ <u></u>	<u></u>		
4. Barium		1.116	0.173	1.0	194		
5. Beryllium				1	<del></del>		
6. Cadmium	<u> </u>	0.870	<0.002	1.0	187		
7. Calcium				1	<del>: 12 - 2 -</del> 		
8. Chromium	i •	0.988	0.069	1.0	192		
. Cobalt	•			! !	1		
10. Copper	i •		]	<del></del>	<del></del>		
ll. Iron			ĺ	!	1		
12. Lead	•				1		
13. Magnesium	•	<u> </u>	Í	<del>:</del> 	!		
14. Manganese	-			:	1		
15. Mercury	•	İ			1		
l6. Nickel	1 •		1		I		
17. Potassium	-		ĺ	1	1		
18. Selenium	i •		1				
l9. Silver	•	0.960	0.013	1.0	195		
20. Sodium	-				!		
21. Thallium	•				1		
22. Tin	•				1		
23. Vanadium	•				1		
24. Zine	•			<u> </u>	1		
Other:			1				
	İ	İ	1		1		
Cyanide	-		1	1	}		
	- SR)/SA  x 100						
"R" - out of c							
Comments:							
_	<del></del>		<del></del>				

Jor workorders: 8602047,8602176, 8602197:8603004

Form III

Q.	c.	Report	No.	3

BLANKS

			ساھ	W/V2				
LAB NA	ME <u>Lad</u>	'can	_		C	ASE NO.	Plant.	4
DATE _	3 -	31-86			ŭ	NITS	ug/me	
			. Mac	rix	ster	<del></del>	<i>J</i> '	
		Initial	Cont	inuing C.	alibrati	00		
Prepar	ation	Calibration		Blank '	Preparation Blank			
Сопро	und	Blank Value	1 1	2	2 3		1	2
Metals	:			1	1		dor	8602126
1. <u>Al</u>	uminum						8602047	8602197
2. <u>An</u>	cimony							
3. <u>Ar</u> :	senic							
4. <u>Ba</u>	rium	20.001	1X0.002	40,001	<0.001	K0.001	120,001	X0,002
5. <u>Be</u> :	ryllium							
6. <u>Ca</u>	dmium	<0.002	10002	(0.002	KO.002	K0.002	10,002	40,002
7. <u>Ca</u>	lcium							
8. <u>Ch</u>	romium	<0.005	120.010	(0.005	(0.005	K0.005	<0.005	40.005
9. <u>Co</u>	balt							
10. <u>Co</u>	pper							1
11. <u>Ir</u>	OB							
12. <u>La</u>	ad							
13. <u>Ma</u>	gnesium							
14. <u>Ma</u>	nganese				1			1
15. <u>He</u>	rcury							
16. Ni	ckel							
17. <u>Po</u>	cassium							<u> </u>
18. Se						l		1
19. <u>Si</u>	lver	<0.002	10,025	0.013	X1.005	X0.010	10,002	40,002
20. <u>So</u>	dium							
21. Th	allium							i i
22. <u>Ti</u>	a l							
23. <u>∀a</u>	nadium							1
24. <u>Zi</u>	ac							
Other:		•						i .
						1		)
Committee				1		1	1 1	1

for workerdus 86-02-047 86-02-176 86-02-197 86-03-004

Form II pg a Q. C. Report No. <u>3</u>

INITIAL AND CONTINUING CALIBRATION VERIFICATION³

		INITIAL	. AND CON	TINUI	NG CALI	BRATIC	N VERIF	CATIO	No		
LAB	NAME R	dian		CASE NO.			NO	Plant 4			
						SOW N					
DATE	ن <i>- في -</i>	31-86		UNITS 19/ml Continuing Calibration ²							
Com	oound	Initia	l Calib.	1		Cont	inuing	Calibr	ation ²		
		True Value			True		Found			ZR	Method 4
1.	Aluminum				<u> </u>						
2.	Antimony	<u> </u>			<u> </u>						<u>!</u>
3.	Arsenic				<u> </u>						
4.	Barium				1.0	0	0.99	199	0.99	99	P
5.	Beryllium										<u> </u>
6.	Cadmium	<u> </u>			1.0	0	1.00	100	1.00	100	I P
7.	Calcium		1		<u> </u>						1
8.	Chromium				1,0	0	0.99	199	0.99	99	IP
9.	Cobalt				<u> </u>			1			
10.	Copper		<u> </u>		<u> </u>				<u> </u>		1
11.	Iron			<u> </u>			<u> </u>				
12.	Lead				11					<u> </u>	
13.	Magnesium				Ш			<u> </u>			
14.	Manganese							<u> </u>			
15.	Mercury			<u> </u>	11						
16.	Nickel								<u> </u>		1
17.	Potassium	1		1	11						
18.	Selenium							<u> </u>		<u> </u>	11
19.	Silver				11 1.	00	0.99	199	1.00	100	II P
20.	Sodium				<u>il                                     </u>				<u> </u>	<u> </u>	
21.	Thallium									<u> </u>	
	Tin									1	
23.	Vanadium									1	!!
24.	Zinc										
	r:										11
									<u> </u>		
Cyan	iide										
					7						

¹ Initial Calibration Source 2 Continuing Calibration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

For work orders: 86-02-047 86-02-176 86-02-197

ICP QCDATA- PLANT 4

86-03-004

# Form II 99 1

Q. C. Report No. _ 3

LAB NAME <u>Qa</u>	_		ONTINUING CALIBRATION VER CASE NO SOW NO			Plant 4				
DATE 3 - 3	31-86			UNIT	s 1191	ml.				
	Initia	al Calib	UNITS <u>up/ml</u> Continuing Calibration ²							
Metals:	True Value	Found	ZR	True Value	Found	ZR	Found	ZR	Method 4	
1. Aluminum										
2. Antimony		<u> </u>				1		-		
3. Arsenic					-					
4. Barium	1.00	0.99	199	11.00	0.98	198	0.99	199	P	
5. Beryllium						1				
6. Cadmium	1,00	0.98	98	1.00	0.99	199	1.02	102	10	
7. Calcium										
8. Chromium	1.00	0.98	98	1,00	0.99	199	1.01	101	IP	
9. Cobalt										
10. Copper						l	Į			
ll. Iron				j l						
l2. Lead								1	1	
l3. Magnesium										
14. Manganese										
15. Mercury				1						
16. Nickel							1			
17. Potassium				11					i i	
18. Selenium										
l9. Silver	1.00	0.98	98	1.00	1.01	101	1.00	100	IP	
20. Sodium							ĺ			
21. Thallium										
22. Tin					ĺ					
23. Vanadium										
24. Zine										
Other:						1	1			
						1			I	
Cyanide						1	1		11	

¹ Initial Calibration Source ² Continuing Calibration Source

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

for workorders: 8602047,8602176 8602197 :8603004

Form III

Q. C. Report No. 3

BLANKS

Lab	LAB NAME RADIAN						CASE NO.	Mant 4		
DATE	3-3	31-86	-				UNITS _	ugime		
				Macr	1x _///	av		<i></i>		
		Initial		Continuing Calibration						
Pres	paration	Calibration			Blank '	Preparation Bl	ank			
Cor	pound	Blank Value		1	2	3	4	1 2	!	
Het:	als:		]					8603004	1	
1.	Aluminum							000304	}	
2.	Ancimony								]	
3.	Arsenic									
4.	Barium					L		1×0.002		
5.	Beryllium									
6.	Cadmium					<u> </u>		11<0.002		
7.	Calcium		Ц_							
8.	Chromium							10.005		
9.	Cobalt									
10.	Copper								!	
11.	Iron						<u> </u>			
12.	Lead	····								
13.	Magnesium		Щ			<u> </u>				
14.	Manganese									
15.	Mercury	···········	<u>                                     </u>						!	
16.	Nickel									
17.	Pocassium		$\coprod$							
18.	Selenium		<u> </u>							
19.	Silver							K0.002		
20.	Sodium					<u> </u>				
21.	Thallium		11			<b>⊥</b>				
22.	Tin					<u> </u>				
23.	Vanadium		11			<u> </u>				
24.	Zinc		1					<u> </u>		
Oth	er:							. ] ]		
	_	<u> </u>	H		1	1	1			

Cyanide

H

DIA (5. 360204 86021) 36 211, 86.012

# RADIAN

540

#### **CHAIN OF CUSTODY RECORD**

,	F	Field Sample No
Company Sampled Address of	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	6 2/4.14
Company Sampled/Address	elitate	- Jugar
Stream Characteristics:		
Temperature	Flow	<b></b>
Visual Observations/Comments		
Collector's Name ////////////////////////////////////	Date/Time Sampled	2/34/83
Amount of Sample Collected SED	IN - ambo alus	
Sample Description	with	
Store at: ☐ Ambient ☐ 5°C ☐ -	10°C FOther 4°C	
Caution · No more sample available	☐ Return unused portion of sample	☐ Discard unused portions
Other Instructions - Special Handling -	Hazards	<u> </u>
M. Hannardonn annual (ann h-Inn)		
⊠Hazardous sample (see below)	☐ Non-hazardo	ous sample
<b>E</b> Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C
☐ Pyrophoric	☐ Lachrymator	□ Shock sensitive
□ Acidic	☐ Biological	<b>∠</b> Carcinogenic ⋅ suspect
□ Caustic	☐ Peroxide	☐ Radioactive
Other		
Sample Allocation/Chain of Possessio	n:	
Organization Name Action  Received By  Transported By  Comments	Coro	
Received By	Date Received	Time
Transported By / // // / / / / / / / / / / / / / /	Lab Sample No. 86	03-018
Inclusive Dates of Possession 2/22	156-31/86	
Organization Name	Dalut I Comme	
Received By Chaules	Date Received	7/1/25 Time
Transported By For eval		
Comments	·	
Inclusive Dates of Possession		
Organization Name		
Received By		
Transported By		
Comments		
Inclusive Dates of Possession		
		· · <del></del>

EPH 25: 860213,860214,50015,560216

# RADIAN

#### **CHAIN OF CUSTODY RECORD**

	Fi	eld Sample No		
Company Sampled Address	ral Deprencies, Ff. Wer.	the Alant 4		
Sample Point Description Minus	relevation			
Stream Characteristics:				
Temperature	Flow	pH		
Collector's Name / Longs Toll	Date/Time Sampled _	3/1/51		
Amount of Sample Collected 27/2/	to the sampled	3/1/39		
Sample Description	salar 1000 ml. gluss			
Store at: ☐ Ambient ☐ 5°C ☐ —	10°C Polher 4°C			
Caution · No more sample available	☐ Return unused portion of sample ☐	Discard unused portions		
	Hazards			
Hazardous sample (see below)	□ Non-hazardoù	us sample		
<b>™Toxic</b>	☐ Skin irritant	☐ Flammable (FP< 40°C)		
☐ Pyrophoric	☐ Lachrymator	☐ Shock sensitive		
☐ Acidic	☐ Bíological	Carcinogenic - suspect		
	<del>-</del>			
☐ Caustic	□ Peroxide	☐ Radioactive		
☐ Caustic ☐ Other	☐ Peroxide	☐ Radioactive		
Other				
Other				
□ Other  Sample Allocation/Chain of Possessio  Organization Name & aucus	n:			
□ Other  Sample Allocation/Chain of Possessio  Organization Name & aucus	n:			
□ Other  Sample Allocation/Chain of Possessio Organization Name faction  Received By  Transported By	Date Received	Time		
□ Other  Sample Allocation/Chain of Possessio Organization Name faction  Received By  Transported By	Date Received	Time		
□ Other Sample Allocation/Chain of Possession Organization Name Action © Received By Transported By Life Comments Shockward Possession _3/	Date Received Lab Sample No.	Time		
□ Other Sample Allocation/Chain of Possession Organization Name Action © Received By Transported By Life Comments Shockward Possession _3/	Date Received Lab Sample No.	Time		
□ Other Sample Allocation/Chain of Possession Organization Name Action © Received By Transported By Life Comments Shockward Possession _3/	Date Received Lab Sample No.	Time		
Sample Allocation/Chain of Possessio Organization Name Laulan Received By Transported By Laulan Comments Inclusive Dates of Possession 3/1 Organization Name Received By Transported By	Date Received	Time		
Sample Allocation/Chain of Possession Organization Name Laction Received By Transported By Comments Inclusive Dates of Possession Organization Name Received By Transported By Transported By Comments	Date Received  Lab Sample No.  AC  Date Received  Lab Sample No.	7/4/15 L. Time 16 6 6		
Sample Allocation/Chain of Possession Organization Name Action Received By Transported By Comments Organization Name Received By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Comments Inclusive Dates of Possession	Date Received  Lab Sample No.  Date Received  Date Received  Lab Sample No.	7)   C   C   C   C   C   C   C   C   C		
Sample Allocation/Chain of Possession Organization Name Laction Received By Transported By Comments Inclusive Dates of Possession Received By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By Transported By	Date Received Lab Sample No.  Date Received  Date Received  Lab Sample No.	Time		
Sample Allocation/Chain of Possession Organization Name Aculture Received By Transported By Comments Inclusive Dates of Possession Organization Name Received By Comments Inclusive Dates of Possession Organization Name Received By Organization Name Received By	Date Received  Lab Sample No.  Date Received  Date Received  Date Received  Date Received	Time		
Sample Allocation/Chain of Possession Organization Name Lauran Received By Transported By Lauran Comments Inclusive Dates of Possession Received By Transported By Transported By Transported By Organization Name Received By Inclusive Dates of Possession Organization Name Received By Transported By Transported By Transported By	Date Received Lab Sample No.  Date Received  Date Received  Lab Sample No.	Time		



Inclusive Dates of Possession

### **CHAIN OF CUSTODY RECORD**

		860025 Field Sample No. <u>860026</u>
		·
Company Sampled / Address		
Sample Point Description <u>P-20</u>	AND P-21 MUD PITS	<u> </u>
Stream Characteristics: NA		
Temperature	Flow	pH
Visual Observations/Comments		
Collector's Name <u>PETER A WAT</u>	FRRFUS Date/Time Sample	nd 2/28/24 1520-1530
Amount of Sample Collected 2-500	· · · · · · · · · · · · · · · · · · ·	
Sample Description <u>DRILLIN 6</u>		
Store at: ☐ Ambient ☐ 5°C ☐ —	10°C SOther 4°C	
☐ Caution - No more sample available	☐ Return unused portion of sample	■ □ Discard unused portions
Other Instructions - Special Handling -	Hazards	
		(
☐ Hazardous sample (see below)	□ Non.hazar	rdous sample
•		·
□ Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
□ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	☐ Carcinogenic - suspect
☐ Caustic	☐ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain of Possessio	n:	
Organization Name _ RAS		
Received By	Date Received	3-3 86 Time <u>C900</u>
Transported By PAW		
Comments		
nclusive Dates of Possession		
Organization Name		
Received By		
Transported By		
Comments		
nclusive Dates of Possession		
Organization Name		
Received By		
Transported By		
Comments		
· · · · ·		

RAS	0+6	860221
RADIAN		
CORPORATION 860217, 8202. 601 860220, 27 612 860220, 860219, 86021.	/}/ CHAIN OF CUSTODY RECORD	
601 860 600, 61	Metals	860218,820219
61 L 860 220, 860 H1, 860 F1.	,,,=,,,	Field Sample No.
Company Sampled / Address	General Demam	w Plant 4
Sample Point Description Lhoune	houten !	
Stream Characteristics:		
Temperature	Flow	pH
Visual Observations/Comments		
Collector's Name W Holinium U.	Hist Date/Time Sam	pled 4/10/82
Collector's Name W Folinson, U. Amount of Sample Collected 12 VUA	5.7 muser 2500	ni daine
Sample Description Houndard	in .	
Sample Description **Standardardardardardardardardardardardardard	C POther 4°C	
☐ Caution · No more sample available ☐	•	
Other Instructions - Special Handling - Ha	zards	
,		
Hazardous sample (see below)	□ Non-ha	zardous sample
☑ Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
☐ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	☑ Carcinogenic · suspect
☐ Caustic	☐ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain of Possession:		
Organization Name Radium	Corp	
		ed Time
Received By	Lab Sample No	
Comments		
Inclusive Dates of Possession		
Organization Name		
Received By 11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	Date Receiv	ed Time
Organization Name Received By Transported By	Lab Sample No.	in the property of
Comments	;	
Inclus' re Dates of Possession		
Organization Name		
Received By		
Transported By		
Comments	•	
Inclusive Dates of Possession		

#### Form II

Q.	c.	Report	No.	
•				-

Lab	NAME					NO. 3			01,-	02
DAI	<u>5-ao</u>	-8W	·		EUNII:	- <u> </u>	Im	/ /		
Com	pound	Initi	al Calib	. 1		10110				
Met	als:	True Value	Found	双	True Value	Found	32	Found	332	Mechod
1.	Aluminum									
2.	Ancimony									1
3.	Arsenic								·	
4.	Barius	1.0	10.999	100	11.0	1.000	102	10.998	110C1	P
5.	Beryllium								][	
6.	Cadmium	1.0	11.007	101	1.0_	1.033	103	1.004	1000	i p
7.	Calcium									1
8.	Chronius	11.0	11.004	1001	1.0	1.033	1103	0.977	1981	IP
9.	Cobalt		]							1
٥.	Copper		1						1	1
1.	Iron								!	1
2.	Lead									1
3.	Magnesium									1
4.	Manganese	1	Ì							
5.	Mercury									1
6.	Nickel								li	Į.
7.	Potassium									Ī
8.	Selenium									1
9.	Silver	1.0	1.116	112	1.0	1.110	111	1.093	ingi	i P
٥.	Sodium						1	<u> </u>		
1.	Thallium									<u></u>
	Tin		<del>                                     </del>							<del></del>
	Vanadium								<u> </u>	<u></u>
	Zine									<del></del>
	r:	T								!
		<del></del>					<del>                                     </del>	<u> </u>		<del></del>
Yan	140	<del> </del>	<del>                                     </del>		1			<u> </u>	<u>                                     </u>	<del></del>

3 Control Limits: Mercury and Tin. 80-120; All Other Compounds 90-110

4 Indicate Analytical Method Used:

P - ICP/Flame AA; F - Furnace

Form III

			OFT NO.				
CASE NO. SWAYNOG-U1-C2  DATE 5-20-86  MARTIX							
Preparation Compound	Initial Calibration Blank Value	Conti	Enuing Calib Blank Valu 2	Preparation Blank			
Metals:							
l. Aluminum							
2. Antimony							
3. Arsenic		<u> </u>	(2.02.1				
4. Barium	<0.001	1K0:001	<0.001		IXO,CCI		
5. Beryllium			-0.014				
6. Cadmium	40.002	TK0.009	10.002		KC.CC2		
7. Calcium	10.00=	11 (0 00=	(0, 00=		1/0005		
8. Chromium	LO.005	1150.00	(0.005		K0.005		
9. Cobalt							
10. Copper							
ll. Iron							
12. Lead		<del></del>		<del></del>			
13. Magnesium					<u> </u>		
14. Manganese							
15. Mercury							
16. Nickel		╂					
17. Potassium 18. Selenium		-					
19. Silver	<0.002	11×0 m2	<0.000		140,002		
20. Sodium	C.G.OOS	11	0.00				
21. Thallium							
22. Tin							
23. Vanadium		il					
24. Zine							
Other:		1					
				)	1		
Connedo			1		6.1		

THE PROPERTY PRODUCES AND SECOND ASSESSMENT OF SECOND SECOND AND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND

Form VI

Ç.	٥.	Report	No.	
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DUPLICATES

LAB NAME			CASE NO. SUCCUCIO EPA Sample No. Q.MAV. Lab Sample ID NoOI Units IACAL, YML		
	Matt	1x	TIGHT	<u> </u>	
Compound	Control Limit	Sample(S)	Dublicate(D)	P.P.D	
Metals:					
. Aluminum		<u> </u>		<u>!</u>	
2. Antimony		İ		1	
3. Arsenic !					
s. Barrus		0.058	0.057	1.7	
5. <u>Bervillum '</u>				·	
ó. <u>Cacmium l</u>		10.002	20.007	· NC	
7. <u>Calcium '</u>			- <del> </del>	i	
3. Chromaum	· · · · · · · · · · · · · · · · · · ·	1 × 0.012	*0.013	1 NCI	
9. Copalt !	<del></del>			1	
lu. Copper		<u> </u>		!	
11. <u>Iron                                     </u>		1		1	
12. <u>Lead                                      </u>				į .	
l3. <u>Magnesium  </u>		1		1	
la. Manganese 🕦					
15. Mercury		1		i	
ló. Nickel		1		1	
17. Potassium				1	
18. Selenium				1	
19. Silver		(0.002	<0.00a	INC	
20. Sodium				ĺ	
21. Thallium				ĺ	
22. Tin		1		Ī	
23. Vanadium				1	
24. Zinc				Ī	
Otner:			· · · · · · · · · · · · · · · · · · ·	1	
				<del></del>	
Cyanide			<del></del> !	:	

 $^{^{2}}$  RPD = [[S - D ((S + D) 2,] x 130

^{1 -} Non calculable RPD due to value(s) less than CRDL NCI- not calculable due to values 2 5x's the IDL.

Form VI

	γ. υ.	Report No.		
	•	DUPLICATES	~	•
AB NAME			CASE NO. 8004	-
ATE 5-20-86	<b>1</b>		EPA Sample No. e Lab Sample ID No.	0x 0 (1) (
			Lab Sample ID ha	·
	:3a5: 		<del></del>	<del></del>
ozocunc	Control Limit	Sample(S)	Duplicate(D)	RPD-
etals:				}
		<del></del>	<u> </u>	1
Antimony				·
Arsenic		10.041	0.055	1 20
. Barium		10.091	0.055	1 29
. Servilium		1 40 003	1 10 000	1 10
. Cadmium		1 X0.003	1 <0.002	1 NC
. Calcium	<del></del>	1 1 0 000	1 10 000	!
Chromium		120.005	1<0.005	INC
. Cosalt			(	<u> </u>
.U. Copper			<u> </u>	1
l. Iron		1		<del> </del> -
12. Lead			ļ	<u> </u>
l3. <u>Magnesium  </u>		<del></del>	<u> </u>	<u> </u>
4. Manganese	<del></del>	<del> </del>	!	
5. Mercury		<u> </u>	<u> </u>	
6. Nickel			<u> </u>	1
7. Potassium				!
18. Selenium		1	<u> </u>	1
19. <u>Silver</u>		1X0.007	1 <0.002	NC
20. Sodium			<u> </u>	
21. Thailium		<u> </u>		1
22. <u>Tin</u>				ļ
23. Vanadium				1
24. Zinc				1
Other:			<u> </u>	
				-
Cyanide 1		j		1

Proposition of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the

2 RPD * [|5 + D /((5 + D) 2)] x .00

^{1 -} Non calculable RPD due to value(s) less than CRDL

QUALITY CONTROL DATA SUMMARY

RESERVED TO THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF TH

Comp 11ed 5-39-86

Workorder SOOYDOG

Cilent Plant U

Units 44

· · · · · · ·	BLANKS			Compa	Ko.oma	d	anda							
,	SR.								į	130				
_ 1	SA						0.0055			0.035				
4	SR						0.032 0.009 0.005 98			4002				
SPIKE	SSR						0.032			0.030				
:	SAMP#						-014			-01A 0.030 CQ.00 A1035				
	RPD C						0	1		MC				
ANALYSIS	Tand						0.009	0.0.0		-01A (20,003 (20,002) NC				
DUPLICATE ANALYSIS	SAMP						-01A 0.009 0.009	-010 0.009 0.010		600'05				
na	SAMP						-01B	-010		-01A				
N N	SR SR	46		801	104	917	98	105	108	86	98	011	801	<u>6</u>
CALIBRATION VERIE ICATION S	TRUE	2000		0.0035	σσσα	Omes	0.043	0.043	0.0%	0.040	0.040	0.040	0.040	0.040
CAL	FOUND	19400		46000	401 BOOD 9800	911 5000 6200	0.04a	0.045 0.043	0.048 0.045	0.039 0.040 98	0.039 0.040	0.044 0.040	0.043 0.040	60 mod 2000
ANALYSIS	DATE	4-21-86 19400 20000	Sample:	4-24-86 0,0037 0,003	Samples:	•	513-86 0.04a 0.04a	Samples: -01-47		65-86	Samples:			
	PARAMETER	0,6		Ha	ſ		B			As				

RPD = [(/S-D/)/((S+D)/2)]x100 RPD = Relative Percent Difference NC = Noncalculable

the Instrument detection limit IDL = Instrument Detection Limit SPIKE %R = [(SSR-SR)/SA]x100 * = Value is less than five times

A = Analytical P = Predigestion

Process recorded by says and become the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of the process of

Comp 11ed 5-37-86

Workorder SCOULKE

Client Plant

Units 119/10/

RPD = [(/S-D/)/((S+D)/2)]×100 RPD = Relative Percent Difference NC = Noncalculable

SPIKE %R = [(SSR-SR)/SA]x100
* = Value is less than five times
the instrument detection limit
IDL = Instrument Detection Limit

A = Analytical
P = Predigestion
2. Sample allugation

	LAB #: 8001019-01A/DUD
	SAMPLE ID: 300318
	DATE: 4-14-86
	INSTRUMENT: Germine
	601/8010
	BROMOCHLOROMETHANE: 97,99
*	2-BROMO-1-CHLOROPROPANE: 76,50
	·
	602/802 <b>0</b>
	a,a,a-TRIFLUOROTOLUENE:
	* Interference

	LAB #: 810040001-08A
	SAMPLE ID: 500219
	DATE: 4-14-86
	INSTRUMENT: Germaine
	(0) (0)
	601/8010
	BROMOCHLOROMETHANE: []]
ŀ	2-BROMO-1-CHLOROPROPANE: (OO
	602/8020
	a,a,a-TRIFLUOROTOLUENE:
Α	.Intorforonce

LAB #: 810(Y+C/G)-03A
SAMPLE ID: 360220
DATE: 4-14-86
INSTRUMENT: Gamaine
. •
<del>~</del>
601/8010
BROMOCHLOROMETHANE: 139
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:

LAB #: 8004019-018
SAMPLE ID: 800218
DATE: 4-15-86
INSTRUMENT: DELOCIS
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 100

LAB #: 51004069-02B/DUP
SAMPLE ID: 800.219
DATE: 4-14-86
INSTRUMENT: DOOKS
. · · •
£01/0010
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: 100,00

LAB #: 8604009-036
sample id: <u>800330</u>
DATE: 4-14-86
INSTRUMENT: DOOFS
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 103



RADIAN
RCCYCUG-CIA
SCC213

#### DUPLICATE ANALYSIS

		1			<del></del>	
EPA Method 601						
Volatile Organics						
COMPOUND	RUN#1	RUN#2	RPD	RUN#1	RUN#2	RPD
Chloromethane	N.D.	ND	NC			
Bromomethane			ì			
Vinyl chloride						
Chloroethane						
Methylene chloride				<del> </del>		
Trichlorofluoromethane	j	1				
l,1-Dichloroethene						
1,1-Dichloroethane			i			
trans-1,2-Dichloroethene		,				
Chloroform		!				
1,2-Dichloroethane						
1,1,1-Trichloroethane		<u> </u>				
Carbon Tetrachloride		:				
Bromodichloroemethane	,					
1,2-Dichloropropane		<del></del>				
Trichloroethene		!				
Dibromochloromethane						
1,1,2-Trichloroethane		<del></del>		<u> </u>		
cis-1,2-Dichloropropene		<u> </u>				
2-Chloroethylvinyl ether		·············				
Bromoform		<u> </u>				
1,1,2,2-Tetrachloreothane						
Tetrachlorethylene						
Chlorobenzene		· · · · · · · · · · · · · · · · · · ·				
1,3-Dichlorobenzene				<del></del>		
1,2-Dichlorobenzene		<del></del>				
1,4-Dichlorobenzene	>	マ	7			
		5,7 <u>-, -3,5-5</u>				

 $RPD = \frac{|R_1 - R_2|}{|X_100|}$ 

RPD= Relative Percent Difference

#### DUPLICATE ANALYSIS

EPA METHOD 602  VOLATILE ORGANICS  SAMPLE * SCCCCCC-CBB  SCCCCCC									
СОМРОИИ	RUN#1	RUN#2	RPD						
Benzene									
Toluene		1C.4	6.5						
Ethyl benzene									
1,4-Dichlorobenzene									
1,3-Dichlorobenzene									
1,2-Dichlorobenzene									
0-Xylene									
M-Xylene									
P-Xylene									
Chlorobenzene									

$$RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$$

RPD= Relative Percent Difference

### VOA RESULTS

LAB # SYSTO- BUNK					
CLIENT NAME					
SAMPLE ID					
	******	****		*******	
EPA METHOD	DATE: MINEL		EPA METHOD	DATE:	
601	ANALYST		602	ANALYST:	
	INSTRUM	ENT	nuis	INSTRUMENT:	
COMPOUND	CONCENTRATION (ug/L)		COMPOUND	CONCENTRATION	
				(ug/L)	
Chloromethane	$\nu$	2	Benzene		
Bromomethane		<u> </u>	Toluene		
Vinyl Chloride		<u> </u>	Ethyl benzene		
Chloroethane			Chlorobenzene		
Methylene chloride		<b></b>	1.4-Dichlorobenzene		
Trichlorofluromethane		<u> </u>	1.3-Dichlorobenzene		
1.1-Dichlorethene		<u> </u>	1.2-Dichlorobenzene		
1.1-Dichlorethane		<b></b>	P-Xylene		
Trans-1.2-Dichloroethene			M-Xylene		
Chloroform		<u> </u>	O-Xylene		
1.2-Dichlorethane					
1.1.1-Trichlorethane			-		
Carbon tetrachloride			4		
Bromodichlormethane			·		
	.2-Dichloropropane		SURROGATE RECOVERIES:		
Trans-1.3-Dichloropropen	<u> </u>		601		
	Trichloroethene		Bromochloromethane		
<del></del>	Dibromochloromethane		2-Bromo-1-Chloropropane		
1.1.2-Trichlorethane			1,4-Dichlorobutane	·	
cis-1.3-Dichloropropene			602	•	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	oluene	
Bromoform			4		
1.1.2.2-Tetrachlorethane			╡		
<u>Tetrachlorethylene</u>	<del></del>		4		
Chlorobenzene			1		
1.3-Dichlorobenzene	<del></del>		-		
1.2-Dichlorobenzene	<del></del>		<del>-</del>		
1.4-Dichlorobenzene			-		

### **VOA RESULTS**

LAB # ENCENT (	, WNK				
SAMPLE ID					
EPA METHOD	DATE:4/(4/71. ANALYST: CO INSTRUMENT: Her		EPA METHOD 602	DATE: ANALYST: INSTRUMENT:	
COMPOUND	CONCENT		COMPOUND	CONCENTRATION (ug/L)	
Chloromethane	No	2	Benzene		
Bromomethane			Toluene		
Vinyl Chloride			Ethyl benzene	<del></del>	
Chloroethane			Chlorobenzene	<del></del>	
Methylene chloride	<del></del>		1.4-Dichlorobenzene	<del></del>	
Trichlorofluromethane		<del> </del>	1.3-Dichlorobenzene		
1.1-Dichlorethene		<del> </del>	1.2-Dichlorobenzene	···	
1.1-Dichlorethane		<del> </del>	P-Xylene	<del></del>	
Trans-1.2-Dichloroethene Chloroform	<del></del>	<del></del>	M-Xylene	<del></del>	
1.2-Dichlorethane		+	0-Xylene		
1.1.1-Trichlorethane	· · · · · · · · · · · · · · · · · · ·	<del>                                     </del>			
Carbon tetrachloride		+			
Bromodichlormethane	<del></del>	+			
1.2-Dichloropropage		<del>                                     </del>	SURROGATE RECOVERI	rc.	
Trans-1.3-Dichloropropene			601		
Trichloroethene		1	Bromochloromethane		
Dibromochloromethane			2-Bromo-1-Chloropropane		
1.1.2-Trichlorethane			1,4-Dichlorobutane		
cis-1.3-Dichloropropene			602		
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	luene	
Bromoform				-	
1.1.2.2-Tetrachlorethane					
Tetrachlorethylene					
Chlorobenzene					
1.3-Dichlorobenzene					
1.2-Dichlorobenzene					
1.4-Dichlorobenzene	_/_				

### VOA RESULTS

LAB # 547	12 BLANK			
CLIENT NAME				
SAMPLE ID				
************	**********			
EPA METHOD	DATE:	EPA METHOD	DATE: 4/15/36	
601	ANALYST:	602	ANALYST: R	
	INSTRUMENT:		INSTRUMENT:	
<del></del>				
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION	
	(ug/L)	1	(ug/L)	
		<del></del>		
Chloromethane		Benzene	NO	
Bromomethane		Toluene		
Vinvl Chloride		Ethyl benzene		
Chloroethane	÷ The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	Chlorobenzene		
Methylene chloride		1.4-Dichlorobenzene		
Trichlorofluoromethane	· · · · · · · · · · · · · · · · · · ·	1.3-Dichlorobenzene		
1.1-Dichlorethene		1.2-Dichlorobenzene		
1.1-Dichlorethane		P-Xvlene		
Trans-1.2-Dichloroethe	ne	M-Xylene		
Chloroform		0-Xylene	U -	
1.2-Dichlorethane				
1.1.1-Trichlorethane		]		
Carbon tetrachloride			ļ	
Bromodichlormethane				
1.2-Dichloropropane		SURROGATE RECOVER	IES:	
Trans-1.3-Dichloropror	ene	601		
Trichloroethene		Bromochloromethane		
Dibromochloromethane		2-Bromo-1-Chloropropane		
1.1.2-Trichlorethane		1,4-Dichlorobutane	·	
cis-1.3-Dichloroproper	<u>.                                    </u>	602		
2-Chloroethylvinyl eth	ler	a.a,a,-Trifluoroto	oluene	
Bromoform				
1.1.2.2-Tetrachloretha				
<u>Tetrachlorethylene</u>		j	İ	
Chlorobenzene			1	
1.3-Dichlorobenzene				
1.2-Dichlorobenzene		-		
1.4-Dichlorobenzene	<del></del>	1		
		I	Y .	

LAB # ARGENT	r BLAK							
CLIENT NAME								
SAMPLE ID								
*************	*********	*********	*********					
EPA METHOD	DATE:	EPA METHOD	DATE: 4/15/36					
601	ANALYST:	602	ANALYST: C					
	INSTRUMENT:		INSTRUMENT OF					
		<del></del>						
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION					
	(ug/L)	}	(ug/L)					
Chloromethane		Banana	ND					
Bromomethane	<del></del>	Benzene Toluene						
Vinvl Chloride	<del></del>	Ethyl benzene						
Chloroethane Methylene chloride	<del></del>	Chlorobenzene	<del></del>					
Trichlorofluoromethane	<del></del>	1.4-Dichlorobenzene 1.3-Dichlorobenzene						
1.1-Dichlorethene		1.2-Dichlorobenzene						
1.1-Dichlorethane		P-Xylene						
Trans-1.2-Dichloroethene	<del></del>	M-Xylene						
Chloroform		0-Xvlene						
1.2-Dichlorethane		U-AVIERE						
1.1.1-Trichlorethane		1						
Carbon tetrachloride		j						
Bromodichlormethane		1						
1.2-Dichloropropane	<del></del>	SURROGATE RECOVERI	FG •					
Trans-1.3-Dichloropropen	<u> </u>	601						
Trichloroethene	<del></del>	Bromochloromethane						
Dibromochloromethane	<del></del>	2-Bromo-1-Chloropro						
1.1.2-Trichlorethane	<del></del>	1,4-Dichlorobutane						
cis-1.3-Dichloropropene		602						
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	luene					
Bromoform	<del></del>	1						
1.1.2.2-Tetrachlorethane								
Tetrachlorethylene		]						
Chlorobenzene								
1.3-Dichlorobenzene								
1.2-Dichlorobenzene		]						
1.4-Dichlorobenzene								
ì								

LAB # 545/A	BUNK							
CLIENT NAME								
SAMPLE ID								
			******					
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 4/1436 ANALYST: CO INSTRUMENT O					
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)					
Chloromethane		Benzene	No					
Bromomethane	<del>-</del>	Toluene						
Vinyl Chloride		Ethyl benzene						
Chloroethane	· · · · · · · · · · · · · · · · · · ·	Chlorobenzene						
Methylene chloride		1.4-Dichlorobenzene						
Trichlorofluromethane		1.3-Dichlorobenzene						
1.1-Dichlorethene		1.2-Dichlorobenzene						
1.1-Dichlorethane		P-Xylene						
Trans-1.2-Dichloroethe	ne	M-Xylene						
Chloroform		0-Xylene						
1.2-Dichlorethane	· · · · · · · · · · · · · · · · · · ·							
1.1.1-Trichlorethane								
Carbon tetrachloride	<del></del>							
Bromodichlormethane								
1.2-Dichloropropane		SURROGATE RECOVERIES:						
Trans-1.3-Dichloroprop								
Trichloroethene		Bromochloromethane						
Dibromochloromethane		2-Bromo-1-Chloropr	opane					
1.1.2-Trichlorethane		1,4-Dichlorobutane						
cis-1.3-Dichloropropen		602	_					
2-Chloroethylvinyl eth	er	a,a,a,-Trifluoroto	luene					
Bromoform								
1.1.2.2-Tetrachloretha								
Tetrachlorethylene								
Chlorobenzene								
1.3-Dichlorobenzene								
1.2-Dichlorobenzene								
1.4-Dichlorobenzene								

LAB # DENCEPT	BUNK						
CLIENT NAME							
SAMPLE ID							
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 4/14/26 ANALYST: CO INSTRUMENT OIL				
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)				
Chloromethane	. v.•	Benzene	No				
Bromomethane		Toluene					
Vinvl Chloride		Ethyl benzene					
Chloroethane		Chlorobenzene					
Methylene chloride		1.4-Dichlorobenzene					
Trichlorofluromethane		1.3-Dichlorobenzene					
1.1-Dichlorethene		1.2-Dichlorobenzene					
1.1-Dichlorethane		P-Xylene					
Trans-1.2-Dichloroethen	<u></u>	M-Xylene	\/				
Chloroform		0-Xylene					
1.2-Dichlorethane							
1.1.1-Trichlorethane		]					
Carbon tetrachloride		1					
Bromodichlormethane							
1.2-Dichloropropane		SURROGATE RECOVERIES:					
Trans-1.3-Dichloroprope	ne	601					
Trichloroethene		Bromochloromethane					
Dibromochloromethane		2-Bromo-1-Chloropropane					
1.1.2-Trichlorethane		1,4-Dichlorobutan	e				
cis-1.3-Dichloropropene		602					
2-Chloroethylvinyl ether	<u> </u>	a,a,a,-Trifluorot	oluene				
Bromoform							
1.1.2.2-Tetrachlorethan	<u> </u>	_					
<u>Tetrachlorethylene</u>		4					
Chlorobenzene							
1.3-Dichlorobenzene		_					
1.2-Dichlorobenzene		_					
1.4-Dichlorobenzene		_					

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	4/14/26		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	% Recovery	
_		INSTRUMENT		G	6	D	0	
TEST METHOD	COMPOUND		*********	********			*******	
EPA 601	EPA WP 483 CO	_						
	Methylene Chlo		9,2	10.0	108			
	1.1-Dichloroet		10.0	8.5	25			
	Trans-1.2-Dich		1 -					
	Chloroform		43.0	64.1	149			
	1.2-Dichloroet	hane	27.6	23.0	ZY			
	1.1.1-Trichlor	ethane	14.3	13.3	93			
	Carbon Tetrach	loride	20.0	17.2	84			
	Bromodichlorom	ethane	7.9	8.4	107			
	1.2-Dichloropy	opane	8.0	7.7	97			
	Trichloroether	ne	22.2	22.3	100			
	Dibromochlorom	ethane	16.7	15.5	93			
	Bromoform	<del> </del>	9.9	10.3	104			
	1.1.2.2-Tetrac	hloroethane	10.0	,				
	Tetrachloroeth	iene	6.2					
	Chlorobenzene		8.2	9.5	116			
EPA 602	EPA - WP 879 (	conc.1						
	Benzene		30.7			39.8	107	
	Toluene		4.1			3.8	93	
	Ethylbenzene		11.5	ļ		10.4	90	
	P-Xylene		19.1			19.3	101	
M-Xylene			42.6			44.3	104	
	0-Xylene		10.6			9.8	73	
EPA 608			(ug/g)					
	Aroclor 1242		58.7					
	Aroclor 1260		56.8	<u> </u>			<u> </u>	

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	4/15/86		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Recovery	
	INSTR	UMENT		D	D	F		
		*****				****		
TEST METHOD	COMPOUND							
EPA 601	EPA WP 483 CONC. 2						- '	
	AND WP 781 CONC.3							
	Methylene Chloride		9.2			10.7-	116	
	1.1-Dichloroethylen	e	10.0			10.3	103	
	Trans-l.2-Dichloroe							
	Chloroform		43.0			64.2	147	
	1.2-Dichloroethane		27.6			25.9	94	
	1.1.1-Trichlorethan	e	14.3			15.9	111	
	Carbon Tetrachlorid	e	20.0			21.3	107	
	Bromodichloromethan	e	7.9			8. 8	194	
	1.2-Dichloropropane		8.0			حي . کل	110	
	Trichloroethene		22.2			124.7	109	
	Dibromochloromethan	e	16.7	~		15.5	83	
	Bromoform		9.9			11.7	118	
	1.1.2.2-Tetrachloro	ethane	10.0					
	Tetrachloroethene		6.2					
	Chlorobenzene ·		8.2			10.5	134	
EPA 602	EPA - WP 879 CONC.1							
	Benzene		30.7	30,2	98			
	Toluene		4.1	3.8	93			
	Ethylbenzene		11.5	9,9	86			
	P-Xy' me	<del> </del>	19.1	17.8	93			
	M-Xylene		42.6	40.7	96			
	0-Xylene		10.6	4.2	86			
EPA 608			(ug/g)					
	Aroclor 1242		58.7					
	Aroclor 1260		56.8	<u> </u>				

RAS - SAC

## **CHAIN OF CUSTODY RECORD**

	Field	ld Sample No		
Company Sampled / Address	lic Force Plant 4			
	Range			
Stream Characteristics:	,			
	Flow	pH		
Collector's Name Whise With	Date/Time Sampled	4/10/86		
Amount of Sample Collected <u>3 -</u>	11 glass			
Sample Description	ster			
Store at:  Ambient  5°C  -	11 glass 10°C Q Other 4°C			
	☐ Return unused portion of sample ☐			
Other Instructions - Special Handling -	Hazards			
7/Managdaya aamala (aaa balays)		•		
XHazardous sample (see below)	□ Non-hazardous	s sample		
XToxic XToxic	☐ Skin irritant	☐ Flammable (FP< 40°		
☐ Pyrophoric	☐ Lachrymator	□ Shock sensitive		
☐ Acidic	☐ Biological	Carcinogenic - suspec		
□ Caustic	□ Peroxide	☐ Radioactive		
□ Other				
Sample Allocation/Chain of Possessio	n:			
Organization Name Todico	Date Received Lab Sample No			
Received By	Date Received	Time		
ransported By W. Johnson	Lab Sample No			
comments		V		
nclusive Dates of Possession $___$	hotee			
Organization Name		<u> </u>		
	Date Received			
ransported By	Lab Sample No.			
Comments				
Organization Name				
	Date Received			
ransported By	Lab Sample No			
	·			

DADIAN Chromium	B60222, B60226 CHAIN OF CUSTODY RECORD 60222, B60223	3 Oil & Grease - Ebox Field Blank - 860223 Top Blank Field Sample No Phot 4 General Dynamics
Temperature	Flow	au.
Visual Observations/Comments		•
Visual Coservations/Comments		
Collector's Name WJohnson   WAMOUNT OF Sample Collected 20 - 44  Sample Description Groundwater  Store at: Ambient 5°C - 10  Caution No more sample available	oml glass, 4-500ml place of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the complex of the comp	lastic, 3- mason jars
Other Instructions · Special Handling · H		
☑ Hazardous sample (see below)	□ Non-haza	irdous sample
<b>™</b> Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
☐ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
☐ Acidic	☐ Biological	☑ Carcinogenic - suspect
□ Caustic	☐ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain of Possession: Organization Name <u>Radian Com</u>	P	Timo
Received By Wendy Johnson	Lab Samola No.	Time
Comments	Lab Sample No	
Inclusive Dates of Possession	86	
Organization Name		<b>T</b>
Received By	Date Received	I Time
Inclusive Dates of Possession		
Organization Name		
Received By Transported By		
Comments	•	
Inclusive Dates of Possession		

#### Form II

CONTRACTOR CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE

#### Q. C. Report No. INITIAL AND CONTINUING CALIBRATION VERIFICATION3 CASE NO. 860484-012-04 LAB NAME SOW NO. A. DATE 5-20-86 UNITS Walnel Initial Calib. Continuing Calibration2 Compound True Value Found Metals: True Value Found 3 ZR | Method TR. Found l. Aluminum 2. Antimony 3. Arsenic Barium Beryllium Cadmium 7. Calcium Chromium Cobalz Ħ 10. Copper 11. Iron 11 12. Lead Magnesium 13. 14. Manganese 15. Hercury 16. Nickel 17. Potassium 18. Selenium 19. Silver 20. Sodium 21. Thallium 22. Tin 23. Vanadium 24. Zinc Other: _

Cyanide

Initial Calibration Source Continuing Calibration Source

3 Control Limits: Mercury and Tin 80-120; All Other Compounds 90-110

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

Form III Q. C. Report No.

		5	1163		SY-NIMOII	7:1	
LAB NAME	21	_		CASE NO.	<u>8604084-</u>	() ( > 1)	
1.DATE <u>5-20-</u> 9	56			UNITS 11	g/ma.		
		Matr	1x				
	Inicial	Conti	nuing Calib	ration	1		
Preparation	Calibration		Blank Valu	Preparacio	on Blani		
Compound	Blank Value	1	2	3 4	1 2		
Metals:							
l. Aluminum							
2. Antimony							
3. Arsenic							
4. Barium	< 0.001	110001	<0.01		11*0.001		
5. Beryllium							
6. Cadmium	<0.002	(0,000	40,002		1140,000		
7. Calcium							
8. Chromium	<0.005	1K0,005k	40.005		1/20.005		
9. Cobalt							
10. Copper							
li. Iron							
12. Lead							
13. Magnesium					j i		
14. Manganese							
15. Mercury							
16. Nickel				1			
17. Potassium							
18. Selenium							
19. Silver	<0.002	11.40.003	40,000		1140.000		
20. Sodium							
21. Thallium							
22. <u>Tia</u>							
23. Vanadium							
24. Zine					İ		
Other:					11		
		il I	i	1			
Cyanide		il l	!	!	1		

#### Form V

Q. C. Report No.

LAB NAME  DATE	D-86	— — Matrix	CASE NO. COUNTY COUNTY CASE NO. COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNTY COUNT					
Compound	Control Limit	Spiked Sample   Result (SSR)	Sample Result (SR)	Spiked   Added (SA)	 			
lecals:	<u> </u>							
l. Aluminum	75-125			1	!			
2. Ancimony	•							
3. Arsenic	•				<u></u>			
4. Barium	•	1.863	0.093	2.0	17			
5. Beryllium	•							
6. Cadmium	-	0.036	40.003	0.05	16			
7. Calcium	•				1			
8. Chromium	•	0.184	XCIC15	0.2	13:			
9. Cobalt	•							
10. Capper	•			l .	1			
ll. Iron								
12. Lead	•							
13. Magnesium	<u> </u>							
14. Manganese	1				1			
15. Mercury	•				1			
16. Nickel	•							
17. Potassium	•							
18. Selenium	•				1			
19. Silver	•	C.221	0.011	10.25	180			
20. Sodium	•				1			
21. Thallium	•				i			
22. Tin	•							
23. Vanadium	•				1			
24. Zinc	•							
Other:								
Cuantido					1			
Cyanide	- SR)/SA] x 100	!	<u>.</u>	<u> </u>				

BASSET TRANSPORTED SERVICES - SECURISES - SECURISES TRANSPORTED SERVICES TO TRANSPORTED SECURISES TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED TO TRANSPORTED T

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QUALITY CONTROL DATA SUMMARY

SCORE PERSONAL MANAGEMENT OF PROPERTY OF PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPE

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	\$R		:		:			113	OIT		801				
<u>}</u>	SA							200	0.030		0,035				
RECOVERY	SR							1,	6000		0,033				
SPIKE	SSR	•						0.038 2003-0.035 113	0.022		50,0 660,0 0,000				
	SAMP#							-01A	-02P 0.032 Kama 0.030 110		-01A				
	RPD										8.7				
ANALYSIS	DUPL										HEO'0 E80'0				
PLICATE	SAMP DUPL										0,033				
nd	SAMP#										-01A				
STDS.	<b>%</b>	44			108		116	98	108	113	96	113	103		
CALIBRATION S	TRUE	am			0.0095	0.0055	0.0005	ава	0,040	0,040	0.048	0.043	0.043		
CAL	FOUND	oahbi		î	£600°C	0.0036	0.0039 n.0085	0.039	0043	511 OHO'O SHO'O	0.043	0.048	0045 0.043		
ANALYSIS	DATE	198-18-h	sample:		5000 EC000 98-112-1	Samples: -02-03 0.0036 0.0045		5580 0.039 0.040	Samples: -01,-02,-03,000/3 0,040 108		5-13-86	50,-09,-03 0.048 0.043 112			
	PARAMETER	930			Н	ſ		35			Pb				

RPD = [(/S-D/)/((S+D)/2)]x100 RPD = Relative Percent Difference NC = Noncalculable

SPIKE %R = [(SSR-SR)/SA]x100
* = Value is less than five times
the instrument detection limit
IDL = Instrument Detection Limit

A = Analytical
P = Predigestion
1. Sample dilutal 1:10.

BOOMERS TO THE SECOND TO THE TERM OF THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SE

Comp 11ed 3-39-86

Workorder SWOYORY

Cilent Plant 4

Units 1404 Dal

BLANKS										
<b>S</b> R										
RY SA	0.025									
SPIKE RECOVERY SSR   SR	20.03 0.005									
SP IKE	0.031									
SAMP#	-01A 0.031									
RPD										
NALYSIS DUPL										
DUPLICATE ANALYSIS										
DUP SAMP#										
ON STDS. SR	001	90	9,8							
CALIBRATION VERIFICATION STDS FOUND TRUE SR	0.030	0.050	0.050							
CA VERIE FOUND	0.050	0.045	0043 0.05d 86							
ANALYSIS	5-19-86	Samples, 0.045 0.050 90								
PARAMETER	Se					<del>36</del> (				

RPD =  $[(/S-D/)/((S+D)/2)]\times100$ RPD = Relative Percent Difference NC = Noncalculable

SPIKE %R = [(SSR-SR)/SA]x100
* = Value is less than five times
the instrument detection limit
IDL = Instrument Detection Limit

A = Analytical
P = Predigestion
2. Sample Oddured 1:10.

	LAB #: 860C4084-01A
	SAMPLE ID: 800001
	DATE: 4-1586
	INSTRUMENT: Germaine
	<b>~</b>
	601/8010
	BROMOCHLOROMETHANE: 98
Þ	2-BROMO-1-CHLOROPROPANE: 78
	602/8020
	a,a,a-TRIFLUOROTOLUENE:
t	Interference

LAB #: 31014034-03A
sample id: $80022$
DATE: 4-14-86
INSTRUMENT: Cemaine
601/8010
BROMOCHLOROMETHANE: 103
2-BROMO-1-CHLOROPROPANE: 10
602/8020
a.a.a-TRIFLUOROTOLUENE•

LAB #: 860408403A/DUP
sample id: 860828
DATE: 4-15-86
INSTRUMENT: GERMAINE
v ti€
<b>-</b>
601/8010
BROMOCHLOROMETHANE: 105,113
2-BROMO-1-CHLOROPROPANE: 14 132
·
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #:8604084-04A
sample id: 860224
DATE: 4-15-86
INSTRUMENT: Germaine
601/8010
BROMOCHLOROMETHANE: 119
2-BROMO-1-CHLOROPROPANE: 137
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: 8604084-06A
SAMPLE ID: FIELD Blank
DATE: 4-15-86
INSTRUMENT: Germaine
<b>~</b>
601/8010
BROMOCHLOROMETHANE: 100
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: 3604084-07A
SAMPLE ID: Trip Blank
DATE: 4-15-86
INSTRUMENT: GORMUN
601/8010
BROMOCHLOROMETHANE: 103
2-BROMO-1-CHLOROPROPANE: 118
602/8020
a.a.a-TRIFLUOROTOLUFNE

LAB #: 8004084-01B
sample id: 360221
DATE: 4-14-86
INSTRUMENT: DELOTIS
+ % <del>*</del>
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 1000

LAB #: 7604084-02B
SAMPLE ID: NOD 222
DATE: 9-14-86
INSTRUMENT: DELOVIS
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: 103

LAB #: 8004084-03B
SAMPLE ID: 800003
DATE: 4-15-86
INSTRUMENT: DELOYIS
• . <del>-</del>
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE:

LAB #: 8004084-04B
SAMPLE ID: <u>800224</u>
DATE: 4-15-84
INSTRUMENT: DELOTIS
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 100

LAB #: 8604084-00B
SAMPLE ID: FIELD BLANK
DATE: 4-15-86
INSTRUMENT: DEJONIS
o w•
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

LAB #: 8004084-07B
SAMPLE ID: Trip Blank
DATE: 4-15-86
INSTRUMENT: DELOVIS
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE:

# 360223

#### DUPLICATE ANALYSIS

EPA Method 601						
Volatile Organics						ı
COMPOUND	RUN#1	RUN#2	RPD	RUN#1	RUN#2	RP
Chloromethane						
Bromomethane						
Vinyl chloride	20.4	<b>⊕</b>	NC			
Chloroethane		<b></b>				
Methylene chloride		<del></del>				
Trichlorofluoromethane				· · · · · · · · · · · · · · · · · · ·		
1,1-Dichloroethene						
l,l-Dichloroethane						
trans-1,2-Dichloroethene	238	293	30,7			
Chloroform						
1,2-Dichloroethane						
l,l,l-Trichloroethane						
Carbon Tetrachloride					_	
Bromodichloroemethane						
1,2-Dichloropropane						
Trichloroethene	40.3	50.5	8.7			
Dibromochloromethane	W2: C2					
1,1,2-Trichloroethane						
cis-1,2-Dichloropropene		·				
2-Chloroethylvinyl ether						•
Bromoform				<del></del>		
1,1,2,2-Tetrachloreothane						
Tetrachlorethylene						
Chlorobenzene						
1,3-Dichlorobenzene						
1,2-Dichlorobenzene			_			
1,4-Dichlorobenzene		6 3	73			

 $RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$ 

PPD= Relative Percent Difference

Present Cut internation problems

Did not confirm by Sinch rounding.

Q.

#### SPIKE RECOVERY

EPA METHOD 601 Volatile Organics	Store Pur 9602	84-0 wry wy	4h 1.5 4/1	ski Re Sw				
COMPOUNDS	SSR	SR	SA	7R	SSR	SR	SA	Z R
Chloromethane								
Bromomethane	1			1		ì		
Vinyl chloride		1	<del></del>	<del>                                     </del>				
Chloroethane		<del>                                     </del>	<del> </del>	1				
Methylene chloride	6.2		9.2	68				
Trichlorofluoromethane		<del>                                     </del>	1					
l,1-Dichloroethene	5,04		10.0	51				
l,1-Dichloroethane		1	1					
trans-1,2-Dichloroethene	<del>4.4</del>	2548	5.4	81 8				
Chloroform	55.3		43.0	7				
1,2-Dichloroethane	19.9		27.4					
1,1,1-Trichloroethane	13.7	1	14.3	88				
Carbon Tetrachloride	17.3	1	2.0	87				
Bromodichloroemethane	810		7.9	101				
,2-Dichloropropane	7.0		3.0	87				
Trichloroethene	34.5	5508	222	155		1		
Dibromochloromethane	10.4		16.7	63				
,1,2-Trichloroethane			4.			i		
is-l,2-Dichloropropene						i		
2-Chlorethylvinyl ether								
romoform	11.7		9.9	118				
,1,2,2-Tetrachloreothan	е		10.0					
etrachlorethylene			6.2			- <del></del>		
hlorobenzene	7.62		8.2	93				
,3-Dichlorobenzene						1		
,2-Dichlorobenzene						Ī		
,4-Dichlorobenzene								
			)		}		1	

& PARTIT FOUND IN SHAPE ALLAMON SUBTAMOTED.

SSR = Spiked Sample Result

SR = Sample Result

6 374

SA = Spike Added



#### SPIKE RECOVERY

EPA Method 602	Y/14/26 Oeln			
Volatile Organics	T CP			
	Oda	<u>.                                    </u>		
SAMPLE # 8604374-00B	-	_		
UNITS PLANT 4 460:	) ) )			
SAMPLE # 8604374-03B UNITS PLANT 4 460:				
COMPOUND	SSR	SR	SA	ZR
Benzene	39,0	1.34	30.7	123
Toluene	5.84	0.74	4.1	127
Ethyl benzene	13.2		11.5	115
1,4-Dichlorobenzene				
1,3-Dichlorobenzene				
1,2-Dichlorobenzene				
0-Xylene	(3.2		10.6	115
M-Xylene	53.4		43.6	125
P-Xylene	23.7		19,1	194
Chlorobenzene				

SSR = Spiked Sample Result

SR = Sample Result

SA = Spike Added

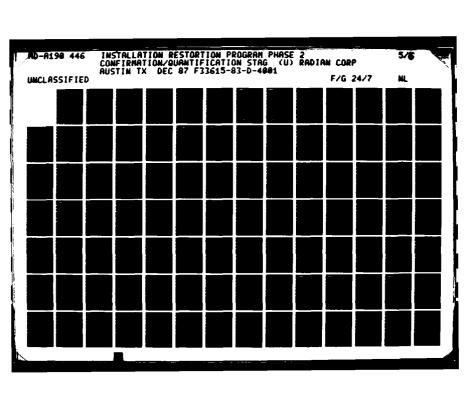
LAB #	AL BLANK		
CLIENT NAME			
SAMPLE ID			
************	: * * * * * * * * * * * * * * * * * * *		
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 4/15/86 ANALYST: 4 INSTRUMENT ()
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	No
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroether	ne	M-Xylene	
Chloroform		O-Xylene	
1.2-Dichlorethane 1.1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans-1.3-Dichloropropene Trichloroethene Dibromochloromethane 1.1.2-Trichlorethane cis-1.3-Dichloropropene 2-Chloroethylvinyl ether Bromoform 1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.4-Dichlorobenzene		SURROGATE RECOVER 601  Bromochloromethan 2-Bromo-1-Chlorop 1,4-Dichlorobutan 602 a,a,a,-Trifluorot	ne propane ne

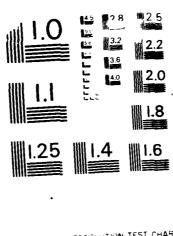
EPA METHOD DATE: 4/15/74 602 ANALYST: 4 INSTRUMENT OF THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE PROOF TO THE
EPA METHOD DATE: 4 15/74 602 ANALYST: 4 INSTRUMENT: OIL  ION COMPOUND CONCENTRATION (ug/L)  Benzene Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene
EPA METHOD DATE: 4 15/74 602 ANALYST: 4 INSTRUMENT: OIL  ION COMPOUND CONCENTRATION (ug/L)  Benzene Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene
Senzene Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene
Benzene Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene (ug/L)
Toluene Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene
Ethyl benzene Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene
Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene
Chlorobenzene 1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene
1.4-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene
1.3-Dichlorobenzene 1.2-Dichlorobenzene P-Xylene M-Xylene
P-Xylene M-Xylene
M-Xylene //
0-Xylene
<del></del>
SURROGATE RECOVERIES:
601
Bromochloromethane
2-Bromo-1-Chloropropane
1,4-Dichlorobutane
602
a,a,a,-Trifluorotoluene
.

LAB # 57570- B	ANL	1		
CLIENT NAME				
SAMPLE ID				
		,=====	**********	*********
EPA METHOD 601	DATE: Y/ ANALYST INSTRUM	: C/ ,	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENT	i	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	Λ	10	Benzene	
Bromomethane			Toluene	·
Vinvl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xvlene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane		<u> </u>		
1.2-Dichloropropane			SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropen	2		601	
Trichloroethene			Bromochloromethane	·
Dibromochloromethane			2-Bromo-1-Chloropr	opane
1.1.2-Trichlorethane			1,4-Dichlorobutane	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	luene
Bromoform				
1.1.2.2-Tetrachlorethane				•
<u>Tetrachlorethylene</u>				
Chlorobenzene				
1.3-Dichlorobenzene				
1.2-Dichlorobenzene		, 		
1.4-Dichlorobenzene				

LAB # PERENT RU	MIC			
CLIENT NAME				
SAMPLE ID				
<b>発展を受けるがでたないるとはなるとととなったと思う</b>				
	ATE: Y		EPA METHOD	DATE:
601 A	NALYST	. 0	602	ANALYST:
I	NSTRUMI	ENTHU	Main	INSTRUMENT:
COMPOUND	ONCENT	RATION	COMPOUND	CONCENTRATION
(ug/L)			(ug/L)	
	1		<del></del>	
Chloromethane	N	2	Benzene	
Bromomethane			Toluene	
Vinyl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	···
Methylene chloride		<b> </b>	1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene		L	M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropene			601	
Trichloroethene			Bromochloromethane	
Dibromochloromethane			2-Bromo-1-Chloropr	
1.1.2-Trichlorethane			l,4-Dichlorobutane	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	luene
Bromoform			-	
1.1.2.2-Tetrachlorethane			_	
Tetrachlorethylene			-	
Chlorobenzene			1	
1.3-Dichlorobenzene				
1.2-Dichlorobenzene			_	
1.4-Dichlorobenzene				
t .				
1			1	

LAB # SYSTA	- DLANK		
CLIENT NAME			
SAMPLE ID			
		*****	
· EPA METHOD	DATE: YIYITL	EPA METHOD	DATE:
601	ANALYST: C	602	ANALYST:
	INSTRUMENT		INSTRUMENT:
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)		(ug/L)
	No		
Chloromethane	100	Benzene	
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroether	1e	M-Xylere	
Chloroform		0-Xylene	
1.2-Dichlorethane		4	
1.1.1-Trichlorethane		_	
Carbon tetrachloride		4	
Bromodichlormethane		4	_
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloroprope		601	
Trichloroethene		Bromochloromethan	
Dibromochloromethane		2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		1,4-Dichlorobutan	e
cis-1.3-Dichloropropen		602	1
2-Chloroethylvinyl ethe	er	a,a,a,-Trifluorot	oruene
Bromoform		-{	
1.1.2.2-Tetrachlorethan	ne	-	
Tetrachlorethylene	<del></del>		
Chlorobenzene	<del></del>	┥	
1.3-Dichlorobenzene	<del></del>	┥	
1.2-Dichlorobenzene	V		
1.4-Dichlorobenzene		<b>-</b> ∱	
		1	





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LAB # [LENCENT	BUNK			
CLIENT NAME				
SAMPLE ID				
************			********	*****
EPA METHOD 601	DATE: YIY ANALYST: ( INSTRUMEN	ر أن	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRA (ug/L)		COMPOUND	CONCENTRATION (ug/L)
Chloromethane	<i>\</i>	2	Benzene	
Bromomethane			Toluene	
Vinvl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform	7		0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane	I			
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVERING	ES:
Trans-1.3-Dichloropropens	2		601	
Trichloroethene			Bromochloromethane	
Dibromochloromethane			2-Bromo-1-Chloropro	
1.1.2-Trichlorethane			l,4-Dichlorobutane	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	luene
Bromoform			1	
1.1.2.2-Tetrachlorethane			4	
<u>Tetrachlorethylene</u>			1	
Chlorobenzene			1	
1.3-Dichlorobenzene			4	
1.2-Dichlorobenzene			-	
1.4-Dichlorobenzene			+	

LAB # SY	KO BUNK		
CLIENT NAME			
SAMPLE ID			
· · · · · · · · · · · · · · · · · · ·	**********	*******	*******
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: Y/14/2C ANALYST: 4 INSTRUMENT 2CL
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	No
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene	<u> </u>	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			•
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroproper	ne	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropro	
1.1.2-Trichlorethane	<del> </del>	l,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether	·	a,a,a,-Trifluoroto	luene
Bromoform	<u></u>		
1.1.2.2-Tetrachlorethane			4.4
<u>Tetrachlorethylene</u>			
Chlorobenzene			
1.3-Dichlorobenzene			
1.2-Dichloro' enzene		-	
1.4-Dichlorobenzene			

LAB # 1 CARGOTT	BUNK		
CLIENT NAME	_		
SAMPLE ID			
	*********	*****	********
· EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 4/19/2C ANALYST: 4 INSTRUMENT Pole
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	No
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethen	<u>e</u>	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride		1	
Bromodichlormethane		1	
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroprope	ne	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropr	
1.1.2-Trichlorethane		l,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ethe	r	a,a,a,-Trifluoroto	luene
Bromoform		4	
1.1.2.2-Tetrachlorethan		-	
Tetrachlorethylene			
Chlorobenzene		4	
1.3-Dichlorobenzene		4	
1.2-Dichlorobenzene		-	
1.4-Dichlorobenzene			

	Da	AILY QUALI RAS GO	TTY CONTROL				
DATE:	4/14/26	SPIKED VALUE (ug/L)	Analyzed Value	% Recovery		Analyzed Value	Rec
-	INSTRUMENT		G	6		D	7
TEST METHOD	COMPOUND			=======			
EPA 601	EPA WP 483 CONC. 2						
	AND WP 781 CONC.3						
	Methylene Chloride	9.2	0.0	108			
	1.1-Dichloroethylene	10.0	8.5	25	- ·;		
	Trans-1.2-Dichloroethylene						
	Chloroform	43.0	64.1	149			
	1.2-Dichloroethane	27.6	23.0	73			
	1.1.1-Trichlorethane	14.3	13.3	93			
	Carbon Tetrachloride	20.0	17.2	84			
	Bromodichloromethane	7.9	8.4	107			
	1.2-Dichloropropane	8.0	7.7	97	Ì		<u> </u>
<del></del>	Trichloroethene	22.2	22.3	100	ļ	<del> </del>	
	Dibromochloromethane	16.7	15,5	93		<u> </u>	
	Bromoform	9.9	10.3	104	ļ. <u></u>		
	1.1.2.2-Tetrachloroethane	10.0				<del>- </del>	
	Tetrachloroethene	6.2		117		<del>                                     </del>	
	Chlorobenzene	8.2	9.5	llb		<del></del>	
EPA 602	EPA - WP 879 CONC.1			1			
	Benzene	30.7		<del></del>	<del> </del>	39.8	10
	Toluene	4.1		<del> </del>		3.8	9
	Ethylbenzene	11.5				10.4	9.
	P-Xylene	19.1	<del> </del>		-	19.3	10
	M-Xylene	42.6	<del> </del>	<del></del>	-	9.8	10
<b>504</b> (66	0-Xvlene	10.6	<del>                                     </del>		<del> </del>	1.0	7
EPA 608	A10- 10/0	(ug/g)					
	Aroclor 1242	56.8	<del>                                     </del>	<del></del>			
	Aroclor 1260	1 36 . 8			<u></u>		

# DAILY QUALITY CONTROL RAS GC LAB

DATE:	4/15/86		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Z Recovery
	IN	STRUMENT		D.	D	6	6
	_						
TEST METHOD	COMPOUND						
EPA 601	EPA WP 483 CONC	. 2					
	AND WP 781 CONC.	3					
	Methylene Chlori	de	9.2			10.7-	116
	1.1-Dichloroethy	lene	10.0			10.3	103
	Trans-1.2-Dichlo	roethylene	5.4				
	Chloroform		43.0	ļ		64.2	149
	1.2-Dichloroetha	ne	27.6			25.9	54
	1.1.1-Trichloret	hane	14.3	ļ		15.9	111
	Carbon Tetrachloride		20.0	ļ		21.3	10'7
	Bromodichloromethane		7.9			8.8	194
	1.2-Dichloropror	ane	8.0			9.50	110
	Trichloroethene		22.2			24.7	109
	Dibromochloromet	hane	16.7			15.5	83
	Bromoform		9.9			11.7	118
	1.1.2.2-Tetrachl	oroethane	10.0				
	Tetrachloroether	<u>.                                    </u>	6.2				
	Chlorobenzene		8.2			10.5	13%
EPA 602	EPA - WP 879 CON	IC.1					
	Benzene	<del></del>	30.7	30, 2	98		
	Toluene		4.1	3.8	93		
	Ethylbenzene	<del></del>	11.5	9,9	86		
	P-Xylene	<del></del>	19.1	17.8	93		
	M-Xylene		42.6	40.7	36		
	0-Xylene		10.6	4.2	86		
EPA 608			(ug/g)				
	Aroclor 1242		58.7				
	Aroclor 1260	·	56.8	<u> </u>			<u> </u>

RADIAN

THE COLORS PROBLES WILLIAM WELLS

625 - 860223, 860221

#### **CHAIN OF CUSTODY RECORD**

	Fie	ld Sample No		
Company Sampled / Address Por	it 4 General Dynamic	22		
	d water			
Stream Characteristics:				
	Flow	n.H		
		· •		
Collector's Name W. Tohnson 1	N. Hise Date/Time Sampled	4110/86		
	4-1L glass			
Sample Description Groundwate	10°C KOther 4°C			
Store at: U Ambient U 5°C U =	10°C & Other 4 C	·		
☐ Caution - No more sample available	☐ Return unused portion of sample ☐	Discard unused portions		
	Hazards	•		
-				
Hazardous sample (see below)	□ Non·hazardou	s sample		
S Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)		
□ Pyrophoric	□ Lachrymator	☐ Shock sensitive		
□ Acidic	☐ Biological	☑ Shock sensitive ☑ Carcinogenic - suspect		
☐ Caustic	☐ Peroxide	□ Radioactive		
□ Other				
Sample Allocation/Chain of Possession	n·			
Received By	Date Received	Time		
Transported By Wendy Johnson	Lab Sample No. 3 🖒 💍	1-015		
Comments				
Inclusive Dates of Possession41				
Organization Name Rulium A.	nalytical Services			
Received By Kulmusun	Date Received 4-	12-86 Time 0430		
Transported By Federal 73676141	2/ Lab Sample No			
Comments	delimination of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o			
Inclusive Dates of Possession $\frac{4-6}{2}$	2-86			
Organization Name				
Received By	Date Received	Time		
	Lab Sample No			
Inclusive Dates of Possession				





#### **CHAIN OF CUSTODY RECORD**

P-23 HM-101

			ole No		
Company Sampled / Address	O Durnier Part	L 4			
Company Sampled Address	ay Dynamics I con 1	<u> </u>			
Sample Point Description P-23, H	m- 101		<del></del>		
Stream Characteristics:					
Temperature	Flow		рн <u>6-7</u>		
Visual Observations/Comments					
			· <del></del>		
Collector's Name TKW	Date/Time Sa	mpled <u>4-18</u>	3-86		
Amount of Sample Collected					
Sample Description 4 2 1 Lite	Amberglass 4 1 Liter )	plastic, BY	10 ml ba-vial		
Store at: ☐ Ambient ☑ 5°C ☐ - 10	0°C □ Other				
<b>_</b>					
☑ Caution - No more sample available	Return unused portion of sa	ample 🗆 Discard	l unused portions		
Other Instructions - Special Handling - H	lazards potentially he	zwdous			
MALYZE for Metals, EPA	601, 602, 625 comp	runds	<del></del>		
Other Instructions · Special Handling · H  Analyze for Metals EPA  Analyze trip blanks (2) be	1 601 £ 602	<del></del>	<del></del>		
•					
☐ Hazardous sample (see below)	□ Non-	hazardous sampl	le		
□ Toxic	☐ Skin irritant		Flammable (FP< 40°C)		
☐ Pyrophoric	☐ Lachrymator		☐ Shock sensitive		
☐ Acidic	☐ Biological		☐ Carcinogenic - suspect		
□ Caustic	☐ Peroxide		Radioactive		
□ Other					
Sample Allocation/Chain of Possession	):				
Organization Name (15)		4-17-6	αι ησηρ		
Received By AND MAN	Date Rece		86 Time 0900		
Transported By TKW	Lab Sample No.	CAC /AA/	<u>্</u>		
Comments		sac por a			
Inclusive Dates of Possession		U			
Organization Name Ladian Had	utical Services	·			
Received By My Kalmuth	Date Rece	ived 4-23-86	Time 0930		
Transported By Folera	Lab Sample No				
	THL 860725) Il: ONE	HM-101 (0)	EHL 860228) 11.		
Inclusive Dates of Possession	, , ,		C-DE-C DOESENT		
Organization Name		, , ,	`		
Received By		nived	Time		
Transported By					
Comments	•				
Inclusive Dates of Possession		<del></del>			
	<del></del>				
STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY					



1. Aluminum 2. Antimony 3. Arsenic 4. Barium 1.0 1.034 103 1.0 1048 1051 1052 1151 5. Berylium 6. Cadmium 1.0 1.000 100 1.0 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 1151 1.050 11			<b>-</b> 41- <b></b>	-	. Repo	ora II		7 <i>2</i> 127	uu3		
Compound   Initial Calib.   Continuing Calibration			dian			CASE	NO. 8/	004	164-0	0/	<del></del>
Compound   Initial Calib.   Continuing Calibration	4, DATE	5-29	-86 (a)	nupis	date	) unii:	in	me			
1. Attacomy  2. Actiony  3. Arsenic  4. Barium		<u>wad</u>	Initia	r Celth	<u> </u>	Cont	104105	<u>Calibs</u>	201002		
2. Antimory  3. Arsenic  4. Barium			True Value	Found	프	True Value	Found	프	Found	프	Hetho
3. Arsenic 4. Barium	1. A	luminum						<u>                                     </u>			
4. Barium	_									<u> </u>	<u> </u>
5. Beryllium 6. Cadmium /, ()	-		1.0	1 000	100		1.01.0	ا ہے ت	1060	116	1 0
6. Cadmium /// ///////////////////////////////	_			1.674	163		1.048	1/1/2	1.003	1//2	<u> </u>
7. Calcium 8. Chromius				1.00			1.630	1162	1 (20)	1 100	1 0
8. Chromius	•		1	1.1.00	100	(1.1)	1.60	100	1100	1/1/3	1
9. Cobals 10. Cooper 11. Iron 12. Lead 13. Magnesium 14. Mangasese 15. Mercury 16. Nickel 17. Potassium 19. Silver 19. Silver 19. Sodium 21. Thallium 22. Tin 23. Vanadium 24. Zine	-		161	1100	100		11000	1	INSC	<u>                                     </u>	10
10. Cosper  11. Tron  12. Lead  13. Magnesium  14. Manganese  15. Mercury  16. Nickel  17. Potassium  18. Selenium  19. Silver /.O ////// //// ///// /////  20. Sodium  21. Thallium  22. Tin  23. Vanadium  24. Zine	-		1.0	11117	1112		1.000	1//5	100	1115	1 P
11. Tron  12. Lesd  13. Magnesium  14. Manganese  15. Mercury  16. Nickel  17. Potassium  19. Silver  19. Silver  10. 1180 113 1.0 1.25 1.4 1.40 115 11  20. Sodium  21. Thallium  22. Tin  23. Vanadium  24. Zinc	-			<del></del>			<u> </u>	1		<u> </u>	1
12. Lesd  13. Magnesium  14. Manganese  15. Mercury  16. Nickel  17. Potassium  18. Selenium  19. Silver /, O   1.180   1.2   1.0   1.135   1.4   1.46   1.5   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2	-		<u></u> _	1		1	<u> </u>	-	<u></u>	<u> </u>	<u> </u>
13. Magnesium  14. Manganese  15. Mercury  16. Nickel  17. Potassium  18. Selenium  19. Silver  10. Julian  20. Sodium  21. Thailium  22. Tin  23. Vanadium  24. Zinc	-			1	1	! !	<u> </u>	1	<u></u>	1 1	<u> </u>
14. Manganese  15. Mercury  16. Nickel  17. Potassium  18. Selenium  19. Silver / O / / / / / / / / / / / / / / / / /	-		<u> </u>	1	<u>                                      </u>	<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	1
15. Mercury  16. Nickel  17. Potassium  18. Selenium  19. Silver   O   I   O   I   O   I   I   I   I   I			<u> </u> 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<del>!</del>	<u> </u>	1 1	<u>-</u>
16. Nickel  17. Potassium  18. Selenium  19. Silver   .0	_		<u>!</u>	<u> </u>	<del> </del> -		<u> </u>	<u> </u>	<u> </u>	<u>                                     </u>	<u> </u>
17. Potassium  18. Selenium  19. Silver  .0  .180  13  .0  .185  14  .146  15    20. Sodium  21. Thallium  22. Tin  23. Vanadium  24. Zinc	-			1			<del> </del>	<u>!</u>	1	1	<u> </u>
18. Selenium  19. Silver   0   1.180   1.0   1.35   1.4   1.46   1.5    20. Sodium  21. Thallium  22. Tin  23. Vanadium  24. Zinc			<u> </u>	<u> </u>		!!	<del> </del>	1		1	1
19. Silver 1.0 1.18() 113 1.0 1.135 114 1.14(c 115) 120. Sodium  21. Thailium  22. Tin  23. Vanadium  24. Zinc	•		<u>!</u>	<del> </del>		<u> </u>	<del> </del>	<del></del>	<del> </del>		1
20. Sodium 21. Thallium 22. Tin 23. Vanadium 24. Zinc	_			11101	1110		1126	1111	11111	<u> </u>	<del></del>
21. Thallium  22. Tin  23. Vanadium  24. Zinc	•		1.0	1.104)	11/2	1. ( )		1119	1,140	1//21	1
22. Tin 23. Vanadium 24. Zinc	-		<u></u>	<u> </u>	<u> </u>	<del> </del>	<del> </del>	1	<u> </u>	1 1	<del></del>
23. Vanadium 24. Zinc	-		<u> </u>	<del></del>		<del>                                     </del>	<del> </del>	1	!	<del>                                     </del>	1
24. Zine	-			<del> </del> -	<del> </del>	<del>  </del>	<del>                                     </del>	-	<u> </u>	1 1	<del> </del>
والتراك والمتلاف والمراج والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمتراك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك والمترك وا	-		<del> </del>		<del> </del>	<del> </del>		<del></del>	<del> </del>	<u>!                                    </u>	1
	_			<del> </del>			<del>                                     </del>	<u> </u>	<del>                                     </del>		
Other:	Other			<del></del>	<del> </del>			<u> </u>	<del> </del>	! !	<del> </del>
				<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del> </del>	1	1

I Inicial Calibration Source SPEX

² Continuing Calibration Source MUMS

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 85-115

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

Form III
Q. C. Report No.

LLE NAME Radian		CASE NO. 8/004164-01
A. DATE 5-29-86		UNITS IIGALMAN
	14	

1	Interal	Cont.	inuing Cal	libratio	38	11	
Preparation	Calibration	11	Blank Va	Preparation 31	Lar		
Compound	Blank Value	1 1	2	3	4	1 2	_
Setals:		11		I		16010	
l. Aluminum							
2. Antimony							_
3. Arsemic							_
4. Barium	×0.001	140.001	40,001			140.001	
5. Beryllium							_
6. Cadmium	40.002	KOCCZ	COUD			146.662	
7. Calcium							
8. Chromius	60,005	KO.005	4.005	<u> </u>		16.65	
9. Cobalt							
10. Copper							_
II. Iron				<u></u>			
12. Lead				<u> </u>			_
13. Magnesium							
14. Manganese							_
15. Mercury				<u></u>			_
16. Nickel					<u> </u>	11 !	_
17. Potassium				<u></u>	<u> </u>		
18. Selenium			<u> </u>	<u></u>			
19. Silver	X0.004	14:103	XC/13	Ĺ	<u> </u>	1166,0021	
20. Sodium				L			
21. Thailium		11	<u> </u>				
22. Tin					<u></u>	11 1	
23. Vanadium		1		1			
24. Zine				Ĺ	1		_
Other:				<u> </u>			_
					1		_
Cyanide		TT			1	1	_

X- < 5x2 4/2 IDL

CONTRACTOR SOLDER CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT

Form VI

Q.	Ç.	Report	No.	
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DUFLICATES

LAB NAME	Padian	
A DATE	-29-86	

CASE NO. SOCIOLOGY

EDIT SACTION OF MANAGEMENT

Lab Sacple ID No. 101

Units MAIMI

Matrix

0200476	Control Limit	Sample(S)	Dublicate(D)	1 225-
				1
letals:				
. Antimony				1
3. Arsenic		<u> </u>		1
. Barius		O.Clas	0.059	133
. Servilium		<u> </u>		1
6. Cadmium		1 60.002	40.002	1 MC
7. Calcium		1		1
3. Chronium		1 × C.016	X0.013	1 NCI
Gobals.		<u> </u>		1
10. Copper		<u> </u>		<u> </u>
ll. Iron		i		1
12. Lead		<u> </u>		
13. Magnesium			<u> </u>	<u> </u>
14. Manganese				1
15. Mercury			<u> </u>	1
16. Nickel			<u> </u>	<del></del>
17. Potassium			<u> </u>	
18. Selenium		<u> </u>		<del>                                     </del>
19. Silver		1 0.010	1 *0.009	1 MCI
20. Sodium		<u> </u>		
21. Thallium		<u> </u>		
22. <u>Tin</u>		1		1
23. Vanadium			<del></del>	
24. Zinc		<u> </u>	<del></del>	<del></del>
Other:		<del></del>	<del></del>	_!
		!	<del> </del>	4
Cyamide		<u> </u>		1

^{*} Gue of Concret 6 5x'2 4/1 IDL.

To be added at a later date.

 $^{2 \}text{ RPD} = [(S - D)/((S + D)/2)] \times 100$ 

^{1 -} Non calculable RPD due to value(s) less than CRDL NCI-MOT CAL CULABLE ALL TO VALUE CEKA THE IDE.

Form VI

Q. C. Report No.

DUPLICATES

LAB HAME RADIAN	
A.DATE <u>5-29-86</u>	

CASE NO. 8004164

ED: Secrit De Constitution

Units 11011018

Matrix

0200011	Control Limit	Sample(S)	Duplicate(D)	P.P.D-
ietals:	AD< 90			
. Aluminum				<u> </u>
. Antimony		<u></u>	<u> </u>	<u> </u>
Arsenic				)
4. Barium		0.001	0.062	1 0.30
5. Servilium				<u> </u>
6. Cadmium		1 60.002	60.003	1 NC
7. Calcium				!
3. Chromium		1 X0.016	X0.08	1 NCI
Gobalt.		i		
U. Copper				i
ll. Iran		İ		
12. Lead				
13. Magnesium				1
14. Manganese				
15. Mercury				)
16. Nickel				1
17. Potassium				
18. Selenium				<u> </u>
19. Silver		1 0.010	0.013	1.36.1
20. Sodium				
21. Thallium				
22. Tin				1
23. Vanadium				
24. Zine				
Otner:				
				+
Cyanide			1	

[·] Cut of Control COX'A 4/2 ID4

To be added at a later date.

· Night PD due to values being close to the IDL.

6 391

 $^{^{2}}$  RPD = [\S - D]/((S + D)/2)] x 100

¹⁻ Non calculable RPD due to value(s) less than CRDL

NC1- not calculable due to values 25x5 472 TDG.

B - 12

#### Form II

			Q. (	C. Repo	ort No.					
u	NAME <u>RA</u>	initia Man	L AND CO	ntinui		on verification. $X_{\mu}^{\prime}$	041	14-02	rdi	1:10
A DAT	<u> 6-2-8</u>	2/0				s				
	pound		al Calib	. 1		tipuis		2510p2		
		True Value			True Value			Found	22.	Method
1.	Aluminum									-
2.	Ancimony									1
3.	Arsenic									
4.	Barium	1.0	1.C15	102	1.1)	1.Clip	VC2			P
5.	Beryllium									
6.	Cadmium	1.0	10.448	100	1.0	1.013	VC/			+ p
7.	Celcim		<u> </u>				1			11
8.	Chromius	1.0	11.012	101	10	1.625	1/63			IP
9.	Cobalt		<u> </u>							<u> </u>
10.	Copper		<u> </u>	<u> </u>						
11.	Iron			<u> </u>						
12.	Lead			<u> </u>			1 1			11
13.	Magnesium									i I
14.	Manganese									1
15.	Mercury									
16.	Nickel									11
17.	Potassium			<u> </u>						<u> </u>
18.	Selenium		<u> </u>							<u> </u>
19.	Silver	1.0	1.114	111	1.0	11.124	1112			II P
20.	Sodium		<u> </u>						<u> </u>	]
21.	Thallium						1			11
22.	Tin		<u> </u>						<u> </u>	11
23.	Vanadium					<u> </u>				11
24.	Zine									
Othe	e:									11
										Н
Cyan	14e		1		11				1	11

KARA BARARAN SKOROKO KOROKOKO NAVADDI BIZARIKA BARARAN DI KARARAN BIZARIKA BIRARAN BIRARAN BIRARAN

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 85-115

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

Form III
C. Report No.

$\sim$		BLAN	iks		
DATE 0-3-80	Man	<del></del>		CASE NO.	8664164-02 die gime
		Matri	×		
Preparation Compound	Inicial Calibration Blank Value	11	nuing Calib Blank Valu 2		Preparation 31an
Metals:				1.	
1. Aluminum					
2. Ancimony					
3. Arsenic					
4. Barium	*C.CO1	11*6001			1140,001
5. Beryllium					
6. Cadmium	20.002	1 KO COZ			1K0.0021
7. Calcium					
6. Chromium	0000	KONS			140.0051
. Cobalt					
lO. Copper					
li. Iroa					
12. Lead					
13. Magnesium					
14. Manganese					
15. Mercury					
l6. Nickel					
17. Potassium					
18. Selenium					
l9. Silver	4.502	12005			11/01/02/
20. Sodium					
21. Thailium		11			
22. <u>Tia</u>					
23. Vanadium					
24. <u>Ziac</u>					
Other:					
				1	

*- LOND the ICh.

Cyanide

Form VI Q. C. Report No. DUPLICATES

LAB N	ine Rodian	
A- DATE	6-2-86	

	Hatt	1x		
ozoguna	Control Lizati	Sample(S)	Duplicate(D)	l Rep
letals:	RPD 120			
. Aluzinuz		<u> </u>		1
. Attimony				<u>!</u>
. Arsenic			- 205	<del> </del>
. Barius		0.257	0.353	1/1/6
. Servilium	<del></del>			<u> </u>
. Caczium		1 60.02	40.02	1 N.C
. Calcium	·			<u> </u>
. Chromium		1+0.247	*0,342	1 NCI
. Cobals.				1
U. Copper				<u> </u>
1. Iron				
2. Lead				1
13. Magnesium			<u> </u>	
4. Manzanese		<u> </u>		1
S. Mercury			<u> </u>	1
6. Nickel	·		<u> </u>	İ
7. Potassium		<u> </u>		
8. Selenium				
9. Silver		1 0.129	0.121	16.4
20. Sodium			<u> </u>	
21. Thallium			<u> </u>	
22. Tin				
23. Vanadium				<u> </u>
24. Zine				
Ocher:				1
			1	4
Cyanide				

[·] ONE of Control COXD WIR IDL.

To be added at a later date.

^{1 -} Non calculable RPD due to value(s) less than CRDL NCI- MCt Calculable and to values <500 the IDU:

# Form V

LAB NAME RA DATE 6-2-5	_		Lab Sa	o. 8604164 ple 10 no. 2 10101	OIXIC
Compound	Control Limit	Spiked Sample   Result (SSR)	Sample Result (SR)	Spiked Added (SA)	   zr!
Mecals:				natural (3K)	**
l. Aluminum	75-125			I	!
2. Antimony	•				1
3. Arsenic	•			ĺ	1
4. Barium	•	2,142	0,257	2.0	194
5. Beryllium	•				
6. Cadmium		60.02	0.020	0.05	1 C
7. Calcium	<u> </u>		·		
8. Caromium	•	0.4.37	140.247	0.2	195
9. Cobalt	•				
10. Copper	•			!	<u> </u>
li. Iron	<u> </u>			<u> </u>	<u>!</u>
12. <u>Lead</u>	<u> </u>			<u> </u>	
13. Magnesium	<u> </u>		<u> </u>		!
14. Manganese	-				<u>!</u>
15. Mercury	•				<u>!</u>
16. Mickel	•				!
17. Potassium					<u> </u>
18. Selenium	•	0.070		0.05	1 (- 5
19. Silver	-	0.279	1 0:139	0.35	160
20. Sodium	-	<u> </u>	<u> </u>	<u> </u>	!
21. Thallium	-	<u> </u>			1
22. <u>Tin</u>	-			<u> </u>	1
23. Vanadium			1	!	1
24. <u>Zinc</u>		<u> </u>	<u> </u>	<u> </u>	1
Other:	1	1		1	!
Cyanide		<u> </u>			<u>'</u>
	- SR)/SA] x 100	X-65X041	TU.	·	<u>:</u>
"Z"- out of c					
Comments:					

QUALITY CONTROL DATA SUMMARY

Compiled 10-24-86

Workorder SCELLILLY

Client Plant 4

Units Majore

-5a-														
(L)	ANALYSIS	CAL	CALIBRATION S	N( STDS	910	DIIPI ICATE ANALYSIS	S I S A I R			SPIKE	BECOVERY	à		
PARAMETER	DATE	FOUND	TRUE	<b>8</b> 8	SAMP	SAMP	DUPL	RPD	SAMP	SSR	1 1	SA	\$R	BLANKS
£	52381 0145 014	avy5	OXX	8					-010	0.10	10000	10	86	* P
San ples		0200	7000	18						4	8			400
100 = 0.003		2												
<b>b</b>														
R	5-A-86	0.037 11.	402	001					-01A	0,0340.	00120	1000	8	000
comples		o heo'o	2000	88										
101=0.003		7000 JE00	•	96										
0														
20	53080	0.0018	0.050	96					-019	0.19	uted 1	035	He R	M. M.
Samoles -01-10-		EUN EKUD	0.05	<i>ħ</i> 6										60003
70L=0.03		8500	0.050	96										0,003
0													•	20.03
77	J.14-86 41	0.000	900	101					JE0-	accau	ray coco acos	acca	190	cann
comples - 01-02														
Cand vacal														
6									•			!		

RPO = [(/S-D/)/((S+D)/2)]x100
CO RPO = Relative Percent Difference

SPIKE &R = [(SSR-SR)/SA]x100 .

* = Value is less than five times
the instrument detection limit

A = Analytical
P = Predigestion

# DAILY QUALITY CONTROL RAS GC LAB

पी २० । ३ ८	SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Z Recovery
INSTRUMENT		1 2	0	G	<i>C</i>
COMPOUND	: 2 4 2 4 2 2 2 3 4 2	********			
EPA WP 483 CONC. 2					
	9.2			8.3	75
					36
,					
				61.2	142
				23,0	83
	14.3			15.7	110
	20.0			19.7	199
	7.9			8.7	110
1.2-Dichloropropane	8.0			66	83
Trichloroethene	22.2		<u> </u>	21.1	95
Dibromochloromethane	16.7		<u> </u>	17.0	184
Bromoform	9.9			10.7	108
1.1.2.2-Tetrachloroethane	10.0				<u> </u>
Tetrachloroethene	6.2				<del>  </del>
Chlorobenzene	8.2			7.6	193.
EPA - WP 879 CONC.1				Ì	
Benzene	30.7	39.2	(33		<u> </u>
Toluene	4.1	4.7	113		<u> </u>
Ethylbenzene	11.5	12.0	105		<u> </u>
P-Xylene	19.1	71.7	114		<del> </del>
M-Xylene	42.6	20.2	<del></del>		ļ
0-Xylene	10.6	11.5	11:9		<del> </del>
	(ug/g)				
					1
	COMPOUND EPA WP 483 CONC. 2  AND WP 781 CONC.3  Methylene Chloride 1.1-Dichloroethylene Trans-1.2-Dichloroethylene Chloroform 1.2-Dichloroethane 1.1.1-Trichlorethane Carbon Tetrachloride Bromodichloromethane 1.2-Dichloropropane Trichloroethene Dibromochloromethane Bromoform 1.1.2.2-Tetrachloroethane Tetrachloroethene Chlorobenzene EPA - WP 879 CONC.1 Benzene Toluene Ethylbenzene P-Xylene M-Xylene	INSTRUMENT   COMPOUND   EPA WP 483 CONC. 2   AND WP 781 CONC.3   Methylene Chloride   9.2   1.1-Dichloroethylene   10.0   Trans-1.2-Dichloroethylene   5.4   Chloroform   43.0   1.2-Dichloroethane   27.6   1.1.1-Trichlorethane   14.3   Carbon Tetrachloride   20.0   Bromodichloromethane   7.9   1.2-Dichloropropane   8.0   Trichloroethene   22.2   Dibromochloromethane   16.7   Bromoform   9.9   1.1.2.2-Tetrachloroethane   10.0   Tetrachloroethene   6.2   Chlorobenzene   8.2   EPA - WP 879 CONC.1   Benzene   30.7   Toluene   4.1   Ethylbenzene   11.5   P-Xylene   19.1   M-Xylene   0-Xylene   10.6   (ug/g)   Aroclor 1242   58.7	INSTRUMENT	INSTRUMENT	INSTRUMENT



#### SURROGATE RECOVERIES

LAB #:8604164-02C. dup.
SAMPLE ID: 800228
DATE: 4-28-86
INSTRUMENT: DOLONIA
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/8020
a,a,a-TRIFLUOROTOLUENE: 100



#### DUPLICATE ANALYSIS

METHOD 602 Volatile organics		8604	164-02C 860228
Сожроии <b>о</b>	RUN#1	RUN#2	RPD
Benzene	ND	ND	NC
Toluene			
Ethyl benzene			
1,4-Dichlorobenzene			
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
Clorobenzene	4	4	
M-Xylene			<u> </u>
P-Xylene		····	
O-Xylene			

$$RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$$

RPD= Relative Percent Difference

LAB # 575750 B4	40/14	<del></del>		
CLIENT NAME	- I -		······································	
SAMPLE ID				
SARILE ID				
EPA METHOD 601	DATE: 4 29/76 ANALYST: INSTRUMENT HOM	EPA METHOD	DATE: ANALYST: INSTRUMENT:	
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)	
Chloromethane	No	Benzene		
Bromomethane		Toluene		
Vinyl Chloride		Ethyl benzene		
Chloroethane		Chlorobenzene		
Methylene chloride		1.4-Dichlorobenzene		
Trichlorofluoromethane		1.3-Dichlorobenzene		
1.1-Dichlorethene		1.2-Dichlorobenzene		
1.1-Dichlorethane		P-Xylene		
Trans-1.2-Dichloroethene		M-Xylene		
Chloroform		0-Xylene		
1.2-Dichlorethane	1			
1.1.1-Trichlorethane		!		
Carbon tetrachloride	!	]		
Bromodichlormethane	1	]		
1.2-Dichloropropane	1	SURROGATE RECOVERI	ES:	
Trans-1.3-Dichloropropen	e '	601		
Trichloroethene		Bromochloromethane		
Dibromochloromethane		2-Bromo-1-Chloropr	opane	
1.1.2-Trichlorethane		1,4-Dichlorobutane		
cis-1.3-Dichloropropene		602		
2-Chloroethylvinyl ether	,	a,a,a,-Trifluorotoluene		
Bromoform				
1.1.2.2-Tetrachlorethane		j		
Tetrachlorethylene	!			
Chlorobenzene				
1.3-Dichlorobenzene		]		
1.2-Dichlorobenzene	1./	j		
1.4-Dichlorobenzene				
	_	1		

LAB # YLER GER	M BLANK	<b>i</b>	
CLIENT NAME			
SAMPLE ID			
			************
EPA METHOD	DATE: 4/26/2	L EPA METHOD	DATE:
601	ANALYST: 61	602	ANALYST:
	INSTRUMENT	علم ا	INSTRUMENT:
		Bana-	
COMPOUND	CONCENTRAT	ION COMPOUND	CONCENTRATION
	(ug/L)		(ug/L)
Chloromethane	.10	Benzene	
Bromomethane	10/	Toluene	<del></del>
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	<del></del>
Methylene chloride		1.4-Dichlorobenzen	e
Trichlorofluoromethane		1.3-Dichlorobenzen	
1.1-Dichlorethene		1.2-Dichlorobenzen	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			<del> </del>
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVE	RIES:
Trans-1.3-Dichloroproper	<u> </u>	601	
Trichloroethene		Bromochlorometha	
Dibromochloromethane		2-Bromo-1-Chloro	propane
1.1.2-Trichlorethane		1,4-Dichlorobuta	ne
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether	<b></b>	a,a,a,-Trifluoro	toluene
Bromoform			
1.1.2.2-Tetrachlorethan	·		
<u>Tetrachlorethylene</u>			
Chlorobenzene			
1.3-Dichlorobenzene			
1.2-Dichlorobenzene 1.4-Dichlorobenzene			
	V		

LAB # 57570- B	14.00	<del></del>	
	المراح		
CLIENT NAME	<del></del>	<del></del>	
SAMPLE ID			
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METROD 602	DATE: 406/3L ANALYST: 40 INSTRUMENT:00
СОМРОПИД	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	<del></del>	Benzene	$\mathcal{N}_{\mathcal{D}}$
Bromomerhane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene		M-Xylene	
Chloroform		0-Xylene	<u> </u>
1.2-Dichlorethane			
1.1.1-Trichlorethane		1	
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERING	ES:
Trans-1.3-Dichloropropene		601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropro	
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	uene
Bromoform		]	
1.1.2.2-Tetrachlorethane		]	
Tetrachlorethylene			
Chlorobenzene	<del> </del>	1	
1.3-Dichlorobenzene		4	
1.2-Dichlorobenzene		4	
1.4-Dichlorobenzene		1	

LAB #	REAGENT	BUNK		
CLIENT NAME				
SAMPLE ID				
***********	********			
EPA METHOD		DATE:	EPA METHOD	DATE: 4 4126
601		ANALYST:	602	ANALYST:
		INSTRUMENT:		INSTRUMENTS QU
	<del></del>			
COMPOUND		CONCENTRATION	СОМРОПИР	CONCENTRATION
		(ug/L)		(ug/L)
				4/0
Chloromethane			Benzene	NS
Bromomethane			Toluene	
Vinvl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chlori	de		1.4-Dichlorobenzene	
Trichlorofluorom	ethane		1.3-Dichlorobenzene	
1.1-Dichlorethen	<u>e</u>		1.2-Dichlorobenzene	
1.1-Dichlorethan	<u>e</u>		P-Xylene	
Trans-1.2-Dichlo	roethene		M-Xylene	!//
Chloroform			0-Xylene	
1.2-Dichlorethan			1	
1.1.1-Trichloret	hane			
Carbon tetrachlo				
Bromodichlormeth				
1.2-Dichloroprop			SURROGATE RECOVERS	ES:
Trans-1.3-Dichlo			601	
Trichloroethene			Bromochloromethane	
Dibromochloromet	hane		2-Bromo-1-Chloropa	•
1.1.2-Trichloret			1,4-Dichlorobutane	·
cis-1.3-Dichloro			602	
2-Chloroethylvin	<u>vl ether</u>		a,a,a,-Trifluoroto	oluene
Bromoform		<del></del>	4	
1.1.2.2-Tetrachl			4	į
Tetrachlorethyle	ne		4	i
Chlorobenzene			4	
1.3-Dichlorobenz		<u> </u>	4	
1.2-Dichlorobenz			4	
1Dichlorobenz	ene		4	
		-	}	
1			1	

Fo		II
_	_	

				_	orm II					
				C. Repo						
	0	INITIA	L AND COI	NTINUIN	G CALIBRATIO			,		
LAB	name <u>L</u>	Winn						11/24-6	2/	
	<i>م</i> . م	0. /				m. <u>1</u>		£4		
A, DATE	5-29	-86 (u)	raupis	date	) UNII	s //A/	me			
Comp	ound	Initia	1 Calth.	.1	Cont	cinuing (	Calibo	ration ²		
Meta	ls:	True Value	Found	<u> </u>	True Value	Found	<u> </u>	Found	3	Method 4
1.	Aluminum				<u> </u>	<u> </u>				
2.	Ancisony				<u> </u>	<u> </u>	<u> </u>			
3.	Arsenic				<u> </u>				1	
4.	Barius	1.0	1.024	163	1.0	1048	11.5	1.052	115	P
5.	Beryllium						<u> </u>		1	<u> </u>
6.	Cadmium	(11)	1.000	1001	1.0	1.630	1163	1.032	113	$(\mathcal{L})$
7.	Calcim									1
8.	Chronium	1.0	11017	1021	140	1.050	115	1050	115	P
9.	Cobalt									
10.	Copper								Í	1
11.	Iron			1						
12.	Lead								1	
13.	Magnesium									1
14.	Manganese									1
15.	Mercury									
16.	Nickel									ì
17.	Potassium									1
18.	Selenium									1
19.	Silver	1.0	1.130	1121	1.0	11135	114	1,146	1151	i P
20.	Sodius									
21.	Thallium						1			1
22.	Tin									
23.	Vanadium									
24.										
Other										
										<del>}</del>
Cyania	de								i	İ

THE CONTROL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF

¹ Initial Calibration Source SPEX ² Continuing Calibration Source MML

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 35-115

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

Q. C. Report No.

BLANKS

CASE N

A. DATE 5-39-86

MARTIX

CASE NO. 8054164-61

UNITS 119/ML

Continuing Calibration Initial Preparation Blank Value Preparation Blank Calibration Blank Value 2 Compound 6610 Metals: Aluminum Ancimony Arsenic X0.001 140001 40001 140,001 Barium Beryllium 40.002 Cadmium 7. Calcium 40,005 Circuius Cobalt 10. Copper II. Iron 12. Lead 13. Magnesium 14. Manganese 15. Mercury 16. Nickel 17. Potassium 18. Selemium X0,004 KO.103 XC.113 19. Silver 20. Sodium 21. Thallium 22. Tin 23. Vanadium 24. Ziac 11 Other:_ 1 11 11 Cyanide

*- < 5x2 the INL

Form VI

Q.	c.	Report	So.	

DUPLICATES

_ '	••••
LAB NAME PORTION	CASE NO. SINGUILLY
£ 00 04	some acountition
A DATE _5-29-86	Leb Saeple ID No. 201
	Unics <u>Walmul</u>
:4 t-	-i -

	Hatt	ix	<i></i>			
Companne	Control Limit	Sample(S)	Duplicate(D)	1 R20-		
Metals:				\		
1. Aluminum		}		1		
2. Antimony		<u> </u>	<u> </u>	1		
Arsenic			<u></u>	<u> </u>		
. Barium		0.061	0.059	1 33		
5. Bervllium		}		1		
. Cadmium		40.002	40.002	1 NIC		
. Calcium				1		
. Chromium		1 20.016	1 XCI 013	1 NCI		
. Cobalt.		<u> </u>		1		
10. Copper 1		1	<u> </u>			
ll. Iron		1	1	 		
12. Lead			\	i		
13. Magnesium			<u> </u>			
4. Manganese				·		
5. Mercury		1	1	·		
16. Nickel				i		
17. Potassium I				1		
18. Selenium		1	<u> </u>	1		
19. Silvet		1 0.010	1 XO,009	! NC/		
20. Sodium		}				
21. Thallium				1		
22. Tin				}		
23. Vanadium						
24. Zinc						
Otner:				1		
				4		
Cvanide )		}	1	1		

^{*} Out of Control C 5x'2 the IDL.

To be added at a later date.  $\frac{2}{2} RPD = \frac{1}{5} - \frac{D}{7}((5 + D)^{2}) \times 100$ 

^{1 -} Non calculable RPD due to value(s) less than CRDL NCI-MOR COULABLE ALL HO VALUED C5KD HK IDG.

Form VI

Q. C. Report No.

LAB NAME PAGUAN ADATE 5-29-86

CASE NO. 8004164

	Matr	ix			
Compound	Control Limit	Sample(S)	Duplicate(D)	I RPD-	
Netals:	AD < 30				
2. Antimony		<u> </u>	<u> </u>		
3. Arsenic				<u> </u>	
4. Barium		0.001	0.062	1 0.30	
5. Bervilium /				1	
6. Cachium		(0.002	60.00	1 NC	
7. Calcium		<u> </u>		1	
3. Chromium		1 X0,016	X0.08	1 NCI	
9. Cotalt		<u> </u>		1	
lu. Copper		<u> </u>	<u> </u>	<u> </u>	
ll. <u>Iron !</u>		<u> </u>	<u> </u>	1	
12. <u>Lead</u> !		<u> </u>	1	1	
l3. Magnesium		}	<u> </u>		
4. Manganese		<u> </u>	<u> </u>	<u> </u>	
15. Mercury		<u> </u>		<u> </u>	
16. Nickel		<u> </u>		<u> </u>	
17. <u>Potassium (</u>		<u> </u>	<u> </u>		
18. <u>Selenium</u>				1	
19. <u>Silver</u>		0.010	0.013	1.36.1	
20. Sodium		<u> </u>		<u> </u>	
21. Thallium					
22. <u>Tin</u>					
23. Vanadium				<u> </u>	
24. Zinc			<u> </u>	<u> </u>	
Otner:			<u> </u>	<u> </u>	
1		<u> </u>	<u> </u>	<del>-</del>	
Cvanide		<u>i</u>		<u> </u>	

Cue of Concrol COXA 4hr ID4

To be added at a later date.

 $^{^{2}}$  RPD = [[S - D]/((S + D)/2)] x 100

^{1 -} Non calculable RPD due to value(s) less than CRDL NCI- not calculable due to values 25xx 42 TDG.

[·] Wigh RPO due to values being close to the IDL. 6 407

				<u> </u>	orm II					
				C. Repo						
	N) a	. INITIAL	L AND COI	NTINUIN	G CALIBRATIO	N VERIF	ICATIO	N3	ز. له	
LAB	NAME <u>PA</u>	<i>luan</i>						04-03	111	1:10
	10.00	77.				NO. $\underline{P}$		- 4		
- •	E <u> </u>			ı		S 440		. 2		
	pound		al Calib	. 1	1	tinuise	7 - 1			lia.
		True Value	Found	<u> </u>	True Value	Found	-X	Found	<u> </u>	Method'
	Aluminum			-		!	1 1			<u> </u>
	Ancimony		<u> </u>				<u> </u>			<del></del>
4.	Arsenic Barium	1.0	1.015	110	140	1.Clic	1150			$\frac{1}{1}$ $D$
5.	Beryllium	110	<i>                                     </i>	1////	<u>                                    </u>	11:1-117	100			<u> </u>
6.	Cadmium	1.0	10.99X	100	110	1.013	1/7/			IP
7.	Calcius		) 	1		1				
8.	Chronius	1.0	11.012	101	1 (/)	1.62	1/2			I P
9.	Cobalt					1	1			1
10.	Copper		\ \			1	1			1
11.	Iron		)							
12.	Lead									
13.	Magnesium								i	
14.	Manganese									1
15.	Mercury									
16.	Nickel							i		1
17.	Potassium			1						
18.	Selenium									1
19.	Silver	1.1	1.114	11/	110	1.124	1112			IP
20.	Sodium				1					
21.	Thallium									
22.	Tin					<u> </u>				
23.	Vanadium									1 1
24.	Zinc									
Othe	r:									
						1				

Cyanide

I Initial Calibration Source SUEX 2 Continuing Calibration Source White

³ Control Limits: Mercury and Tin. 80-120; All Other Compounds 85-115

⁴ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

Q. C. Report No.

		BLAN	IKS		_	
LAB NAME <u>RA</u> P DATE <u>0-2-90</u>	dian	_		CASE NO.	8664164-	02 dil
9 DATE <u>0-3-90</u>	? 	_		UNITS //	MILE.	
		Matri	×		,,,	
	Initial	Contin	uing Calibrat	ion		<del></del>
Preparacion	Calibration		Blank Value		Preparat	lon Blank
Compound	Blank Value	1	2 3	4	<u>                                     </u>	2
Metals:					1) i	
l. Aluminum						
2. Antimony						
3. Arsenic						
4. Barium	¥C.(C)	1XCCC1			1100.001	
5. Beryllium						
6. Cadmium	LO.002	10.00			KU,0021	
7. Calcium	·					
8. Chromium	CO,000	1005			16.05	
9. Cobalt					1)	
10. Copper						
11. Iron						
12. Lead						
13. Magnesium						
14. Manganese						
15. Mercury						<del>_</del>
16. Nickel						
17. Potassium						
18. Selenium					11	
19. Silver	40.002	1260151			11/01/02/	
20. Sodium						
21. Thallium						
22. Tin						
23. Vanadium						
24. Ziac				]		
Other:					11	

X- LOND HU ICU.

Cvanide

14

Q. C. Report No. ______

	LAB NAME	Radian	
^	/	a 1 0/.	

CASE NO. SICHICY-03 dil 1:10

EN Sancia No. AMMINICAL

Units //A/MI

Matrix

Compound	Constol Limit 1	Sample(S)	Dublicate(D)	i RPD ²
Metals:	RPD (20			
2. Antimony				1
3. Arsenic				
4. Barium		10,257	0.253	1 460
5. Bervllium				
6. Cacalua		1 60.02	40.02	1 NC
7. Calcium				!
8. Chronium		140.247	X0,242	1 NCI
9. Cobalc.				
10. Copper				i
ll. Iron		İ		
12. Lead				
13. Magnesium				1
14. Manzanese				
15. Mercury				
16. Nickel	·			
17. Potassium				
18. Selenium	<del></del>		<u> </u>	
19. Silver		10.129	0.121	164
20. Sodium		1		
21. Thallium				
22. <u>Tia</u>				
23. Vanadium				
24. Zinc				
Otner:				
				-
Cyanide				

[·] Cue of Control C. 5KD 4H JOL.

NCI- not calculable due to values 25 is the IUL:

To be added at a later date.

 $^{^{2}}$  RPD = [\S - D\/\((\S + D)^{2}\)\ x 100

^{1 -} Non calculable RPD due to value(s) less than CRDL

### Form V Q. C. Report No.

-	•	
SPIKE	SAMPLE	RECOVERY

. DATE <u>6-2-86</u>			Lab San	aple No. Aug aple ID No. 2	(3.
Compound	Control Limit	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	ZR!
iecals:					
. Aluminum	75-125			<u> </u>	<u>                                     </u>
2. Antimony	•			<u></u>	]
. Arsenic	•				!
4. Barium	•	2.142	0,257	Q.C	194
5. Beryllium	•			<u></u>	
6. Cadmium	•	40.02	40,020	0.05	10
7. Calcium	•			<u> </u>	
6. Chromium	•	0.437	140.247	0.2	195
Cobalt	49			<u> </u>	
10. Copper	•			l	<u>                                     </u>
ll. Iron	•			1	1
12. Lead	•			<u> </u>	1
13. Magnesium	•				1
14. Manganese	•		<u> </u>		!
15. Mercury	•		1		1
16. Nickel	•				1
17. Potassium	•			<u> </u>	!
18. Selenium	•			<u> </u>	<u>                                     </u>
19. Silver	•	0.279	0:129	0.25	160
20. Sodium	•				11
21. Thallium	•			1	<u>i                                     </u>
22. <u>Tia</u>	•			1	
23. Vanadium	•		<u> </u>	!	
24. Ziac	•			1	
Other:	1	1		•	1
Cyanide					
1 22 = [(SSR	- SR)/SA] x 100	X-65X241	i ICC.		

QUALITY CONTROL DATA SUMMARY

THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S

Comp 11ed 10-34-86

Workorder SCLEYILLY

Cilent Plant 4

Units 149/026

	ANALYCIS	CAL	CALIBRATION	N		LOATE	ANAIVOIS			3AI do	VO IKE DECOVED	201		
PARAMETER	DATE	FOUND	1_1	288 88	SAMP#	SAMP	SAMP DUPL	RPD	SAMP	SSR	SR	SA	\$R	BLANKS
B	53386 0045 0045	0045	500	(S)					410-	0.10x	0.108 0.033 0.10	10	85	1, C 1, C 1, C 1, C 1, C 1, C 1, C 1, C
derroles -01.02		800 EHOO	0.03	001										CO.O.
101=0.603 (G. 102mac														
D														
R	5.19.86	6200	#7011	001					A10-	4200	88 1000 5100 158	7000	88	COSO
comples		teon heor	£200	38										
751-0.003		5000 0C00	5000	96										
0														
8	52080 0.048 0.02	0.048	0.050	96					-014	0.19	19 (0,03)	033	70 K	0.03
Dampies		COYTOUR	002	<i>ħ</i> 6										0,00
701=0,03 (2 Juhnne)		0.048 0.050	0.050	$\partial \mathcal{C}$										0.03
0														0.03
H	514-86 600 005	6.0.33	922	hOI					deo-	0,034	DEI ENDEDONDINATION ON	aus	081	cann
Sanges -002														
COUNT VICES														
$\Theta$ RPD = $[(/s-D/)/((s+D)/2)] \times 100$	(d+S))/(/d-S	0/2) ]×100	_		dS	KF &R =	SPIKF %R = [(SSR-SR)/SA]	1×LA2/(A	00		# 4	A n Analytical	- a	

9 RPD = [(/S-D/)/((S+D)/2)]x100
RPD = Relative Percent Difference
NC = Noncalculable
NC1 = Noncalculable due to values
(5x's the IDL

SPIKE \$R = [(SSR-SR)/SA]x100
* = Value is less than five times
the instrument detection limit
IDL = instrument Detection Limit

A = Analytical
P = Predigestion
- Richard MCK LUKTIV

# DAILY QUALITY CONTROL RAS GC LAB

	r	AILY QUAL RAS GO	TY CONTROL			
DATE:	4/20/36	SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Z Recov
	INSTRUMENT		D	0	G	6
TEST		*********	*********			
METHOD EPA 601	COMPOUND EPA WP 483 CONC. 2	-				
	AND WP 781 CONC.3  Methylene Chloride	9.2	<del> </del>		3.8	75
	1.1-Dichloroethylene	10.0			8.6	36
	Trans-1.2-Dichloroethylene				7.0.	<u></u>
	Chloroform	43.0			61.2	142
	1.2-Dichloroethane	27.6			23.0	83
	1.1.1-Trichlorethane	14.3			15.7	110
	Carbon Tetrachloride	20.0			19.7	99
	Bromodichloromethane	7.9	<u> </u>		8.7	110
	1.2-Dichloropropane	8.0			66	83
	Trichloroethene	22.2			21.1	95
	Dibromochloromethane	16.7	<u> </u>		14.0	84
	Bromoform	9.9	<u> </u>		10.7	108
	1.1.2.2-Tetrachloroethane	10.0	<del></del>			
	Tetrachloroethene	6.2				
	Chlorobenzene	8.2			7.6	93.
EPA 602	EPA - WP 879 CONC.1					
	Benzene	30.7	39.2	(3.7		
	Toluene	4.1	4.7	113		
	Ethylbenzene	11.5	13.0	105		
	P-Xylene	19.1	31.7	114		
	M-Xylene	42.6	20.5	<del></del>		<del></del>
	O-Xylene	10.6	11.5	1:9		
EPA 608	11 - 1010	(ug/g)				
	Aroclor 1242	58.7	<del> </del>			
<u> </u>	Aroclor 1260	56.8	<u> </u>	<u> </u>	<u></u>	

## RADIAN

### SURROGATE RECOVERIES

LAB #:8604164-02C dup.
SAMPLE ID: 8100228
DATE: 4-28-86
INSTRUMENT: Dolorio
601/8010
BROMOCHLOROMETHANE:
2-BROMO-1-CHLOROPROPANE:
602/802 <b>0</b>
a,a,a-TRIFLUOROTOLUENE: /()()

# DUPLICATE ANALYSIS

METHOD WWW. VOLATILE ORGANICS		8604164- 860	-02C 228
COMPOUND	RUN#1	RUN∲2	RPD
Benzene	ND	ND	NC
Toluene			<u> </u>
Ethyl benzene			
1,4-Dichlorobenzene			
1,3-Dichlorobenzene			
1,2-Dichlorobenzene			
Clorobenzene	1	b	▼
M-Xylene			
P-Xylene			
O-Xylene			

$$RPD = \frac{|R_1 - R_2|}{(R_1 + R_2)/2} \times 100$$

RPD= Relative Percent Difference

LAB # SYSTEM BL	ANK			
CLIENT NAME				
SAMPLE ID				
**************			********	
EPA METHOD 601	DATE: 4 29/76 ANALYST: C. INSTRUMENT LUM	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:	
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)	
Chloromethane	No	Benzene		
Bromomethane		Toluene		
Vinyl Chloride		Ethyl benzene		
Chloroethane		Chlorobenzene		
Methylene chloride		1.4-Dichlorobenzene		
Trichlorofluoromethane		1.3-Dichlorobenzene		
1.1-Dichlorethene		1.2-Dichlorobenzene		
1.1-Dichlorethane		P-Xylene		
Trans-1.2-Dichloroethene	·	M-Xylene		
Chloroform		0-Xylene		
1.2-Dichlorethane		]		
1.1.1-Trichlorethane				
Carbon tetrachloride	<u>'</u>		į	
Bromodichlormethane				
1.2-Dichloropropane		SURROGATE RECOVERI	ES:	
Trans-1.3-Dichloropropen	e	601		
Trichloroethene		Bromochloromethane		
Dibromochloromethane		2-Bromo-1-Chloropr	opane	
1.1.2-Trichlorethane		1,4-Dichlorobutane		
cis-1.3-Dichloropropene	<u> </u>	602	i	
2-Chloroethylvinyl ether		a,a,a,-Trifluorotoluene		
Bromoform				
1.1.2.2-Tetrachlorethane	!		[	
Tetrachlorethylene	<u> </u>			
Chlorobenzene				
1.3-Dichlorobenzene			}	
1.2-Dichlorobenzene		<b>{</b>		
1.4-Dichlorobenzene				
		l		

LAB # YLENGEN	1 BLANK	-	<u> </u>	
CLIENT NAME				
SAMPLE ID				
*****************		*****	*********	*********
EPA METHOD	DATE: 4/2	18/36	EPA METHOD	DATE:
601	ANALYST:	e .	602	ANALYST:
	INSTRUME	ENT: L	المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة الم	INSTRUMENT:
<del></del>		000	1	
COMPOUND	CONCENTE	RATION	COMPOUND	CONCENTRATION
	(ug/I	7)		(ug/L)
			<del> </del>	
Chloromethane	Α.	10	Benzene	
Bromomethane	70	7	Toluene	
Vinvl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluoromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1,2-Dichloroethene			M-Xylene	
Chloroform		<u> </u>	O-Xylene	
1.2-Dichlorethane		1		
1.1.1-Trichlorethane		!		
Carbon tetrachloride				
Bromodichlormethane		<u> </u>	.[	
1.2-Dichloropropane			SURROGATE RECOVER	IES:
Trans-1.3-Dichloropropen	e	1	601	
Trichloroethene		<u> </u>	Bromochloromethan	
Dibromochloromethane		<del></del>	2-Bromo-1-Chlorop	
1.1.2-Trichlorethane		<del></del>	1,4-Dichlorobutan	e
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether		<del></del>	a,a,a,-Trifluorot	oluene
Bromoform		<del> </del>	ļ	
1.1.2.2-Tetrachlorethane		<del> </del>		
Tetrachlorethylene		-	-	
Chlorobenzene			•	
1.3-Dichlorobenzene		<del>'                                    </del>		
1.2-Dichlorobenzene	<del></del>	/	-	
1.4-Dichlorobenzene			1	
			}	
			1	

THE SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SECRECARY SE

LAB # SYSTO	- BLANK			
CLIENT NAME				
SAMPLE ID				
************	*********			
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: #38/3L ANALYST: & INSTRUMENT: QQ	
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)	
Chloromethane		Benzene	$\mathcal{N}_2$	
Bromomethane	· -	Toluene		
Vinyl Chloride		Ethyl benzene		
Chloroethane		Chlorobenzene		
Methylene chloride		1.4-Dichlorobenzene		
Trichlorofluoromethane		1.3-Dichlorobenzene		
1.1-Dichlorethene		1.2-Dichlorobenzene		
1.1-Dichlorethane		P-Xylene		
Trans-1.2-Dichloroethe	ne	M-Xylene		
Chloroform		O-Xylene	<u> </u>	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride	·····			
Bromodichlormethane				
1.2-Dichloropropane		SURROGATE RECOVERI	ES:	
Trans-1.3-Dichloropror		601		
Trichloroethene		Bromochloromethane	·	
Dibromochloromethane		2-Bromo-1-Chloropr		
1.1.2-Trichlorethane		1,4-Dichlorobutane		
cis-1.3-Dichloroproper		602		
2-Chloroethylvinyl eth	ner	a,a,a,-Trifluorotoluene		
Bromoform	<del></del>			
1.1.2.2-Tetrachloretha				
Tetrachlorethylene	<del></del>			
Chlorobenzene	<del></del>		1	
1.3-Dichlorobenzene	<del></del>	ļ		
1.2-Dichlorobenzene	<del></del>			
1.4-Dichlorobenzene		-		

LAB #	INT BUNK				
CLIENT NAME					
SAMPLE ID					
*************	**********	************	********		
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 4 1/76 ANALYST: 0, INSTRUMENTSOL		
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)		
Chloromethane		Benzene	NS		
Bromomethane		Toluene			
Vinvl Chloride		Ethyl benzene			
Chloroethane		Chlorobenzene			
Methylene chloride		1.4-Dichlorobenzene			
Trichlorofluoromethane		1.3-Dichlorobenzene			
1.1-Dichlorethene		1.2-Dichlorobenzene			
1.1-Dichlorethane		P-Xylene			
Trans-1.2-Dichloroethe	ne	M-Xylene	1//		
Chloroform		0-Xylene	T-		
1.2-Dichlorethane					
1.1.1-Trichlorethane	·	.]			
Carbon tetrachloride		}			
Bromodichlormethane					
1.2-Dichloropropane	<del></del>	SURROGATE RECOVERIES:			
Trans-1.3-Dichloroprop		601			
Trichloroethene		Bromochloromethane			
Dibromochloromethane	<del></del>	2-Bromo-1-Chloropr			
1.1.2-Trichlorethane		1,4-Dichlorobutane			
cis-1.3-Dichloropropen		602			
2-Chloroethylvinyl eth	er	a,a,a,-Trifluoroto	luene		
Bromoform					
1.1.2.2-Tetrachloretha					
Tetrachlorethylene					
Chlorobenzene	<del></del>	4			
1.3-Dichlorobenzene					
1.2-Dichlorobenzene		-			
1.4-Dichlorobenzene		4			

Ausha RADIAN

860229 - 0-6, HT Ruels 860230 - " "

# CHAIN OF CUSTODY RECORD

860229

		Field Sample No. 860 230
Company Sampled Address AF	PLANT 4	
Sample Point Description Drown	ndwater	
Stream Characteristics:		
	Flow	рН
Visual Observations/Comments		
Collector's Name Wendy	ohnson Date/Time Sa	ampled 8/19/82
Amount of Sample Collected 4	mason jass	
Sample Description <i>Quant</i>	rafe.	
Store at: ☐ Ambient ☐ 5°C ☐ —	10°C Gother 4'C	
Caution - No more sample available	☐ Return unused nortion of s	ample  Discard unused portions
/		
Other Instructions - Special Handling -		
Hazardous sample (see below)	□ Non	hazardous sample
Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	Carcinogenic - suspect
☐ Caustic	☐ Peroxide	Radioactive
□ Other		
Compte Attacking (Chair of Bassasia		
Sample Allocation / Chain of Possessio	n: Caro	
Paceived By	Date Rec	eived Time
Transported By Windles Lohn S	1 ah Sample No.	
Comments	Lab oumplo i.e.	
Inclusive Dates of Possession _8//		
•	•	
Received By	Date Rec	eived Time
Comments		
Organization Name		
Received By	Date Rec	eived Time
Transported By	Lab Sample No.	

# QUALITY CONTROL DATA SUMMARY

Submitted \$-37-822 Complied 4AH 8-37-822 Workorder \$208078

Cilent Plant 4

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	_	_	_	_	_	_	, -	_	<del></del>		_		_	7	 	<del></del>	 
	BIANKS																
	<b>8</b> R																
	SA																
RECOVERY	SR																
	SSR																
	SAMP#	-															
	RPD																
MLYSIS	DUPL																
DUPLICATE ANALYSIS	SAMP																
DUPL	SAMP#																
		101	101														
BRATION ATION S	TRUE	210	310														
CALIBRATION VERIFICATION STDS.	FOUND	23	313	-													
ANALYSIS	DATE	8-23-86	8-23-86														
	PARAMETER	HC	0\$0								6	4	2	L			

RPD = [(15-D1)/((5+D)/2)] x 100 RPD = Relative Percent Difference NC = Not calculable due to a value less than five times the IDL

SPIKE \$R = [(SSR-SR)/SA] x 100
* = Value is less than five times
the instrument detection iimit
IDL = Instrument Detection Limit

A = Analytical P = Predigestion SSR = Spiked Sample Result SR = Sample Result SA = Spiked Added

# RADIAN

field blunks duy 800250-755: 0+6, 116 Trees, 64, 662

CHAIN OF CUSTODY RECORD

820 253 820 257 860 253

860754

		Field Sample No. Surger
Company Sampled Address Plan	14	
Sample Point Description Surf	ne water	
Stream Characteristics:		
Temperature	Flow	На
Visual Observations/Comments		
Collector's Name Gary Hun	derson Date/Time Sampled	8/20/84
Amount of Sample Collected 22 V	UAS. 12 mason ins	
Sample Description Sun house	wat	
Sample Description <u>Surfue</u> Store at: □ Ambient □ 5 °C □ -	10°C Other 4'C	
Caution · No more sample available	☐ Return unused portion of sample	☐ Discard unused portions
Other Instructions - Special Handling -		
Hazardous sample (see below)	☐ Non-hazard	ous sample
<b>™</b> Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
☐ Pyrophoric	☐ Lachrymator	□ Shock sensitive
☐ Acidic	☐ Biological	<b>☑</b> Carcinogenic · suspect
☐ Caustic	☐ Peroxide	☐ Radioactive
Other		
Sample Allocation/Chain of Possession	in:	
Organization Name Radia	Corp	
Received By _	Date Received	Time
Organization Name Radio  Received By  Transported By Windy Yohn  Comments	Su- Lab Sample No. 80	08 012
Inclusive Dates of Possession 8/20	1-8/21/82	
•	, ,	
Organization Name	Data Received	Time
Transported By		
Comments	·	
Inclusive Dates of Possession		
Organization Name		
Received By		
Transported By	·	
Comments		
Inclusive Dates of Possession	<del></del>	

METHOD DATE: ANALYST: INSTRUMENT: OUND CONCENTRATI (ug/L)	
ANALYST: INSTRUMENT: OUND CONCENTRATE	
ANALYST: INSTRUMENT: OUND CONCENTRATE	
ANALYST: INSTRUMENT: OUND CONCENTRATE	
	ION
ne	
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obenzene	
obenzene	
obenzene	
E RECOVERIES:	
romethane	
-Chloropropane	
orobutane	
ifluorotoluene	
•	ifluorotoluene

LAB # NEAGENT BU	ANK				
CLIENT NAME					
SAMPLE ID					
				******	
EPA METHOD	DATE:	36/36	EPA METHOD	DATE:	
601	ANALYST:	Ċ,	602	ANALYST:	
	INSTRUME	-,		INSTRUMENT:	
		gov.	- Line		
COMPOUND	CONCENTE	RATION	COMPOUND	CONCENTRATION	
	(ug/I	(۵)		(ug/L)	
Chloromethane	Na		Benzene		
Bromomethane			Toluene		
Vinvl Chloride			Ethyl benzene		
Chloroethane			Chlorobenzene		
Methylene chloride			1.4-Dichlorobenzene		
Trichlorofluoromethane			1.3-Dichlorobenzene		
1.1-Dichlorethene			1.2-Dichlorobenzene		
1.1-Dichlorethane			P-Xylene		
Trans-1.2-Dichloroether	ne		M-Xylene		
Chloroform			0-Xylene		
1.2-Dichlorethane			_		
1.1.1-Trichlorethane			]		
Carbon tetrachloride					
Bromodichlormethane					
1.2-Dichloropropane			SURROGATE RECOVERIES:		
Trans-1.3-Dichloroprope	ene		601		
Trichloroethene			Bromochloromethan		
Dibromochloromethane			2-Bromo-1-Chloropropane		
1.1.2-Trichlorethane			l,4-Dichlorobutane		
cis-1.3-Dichloropropend			602		
2-Chloroethylvinyl ethe	er /		a,a,a,-Trifluorot	oluene	
Bromoform					
1.1.2.2-Tetrachlorethan	1e				
Tetrachlorethylene					
Chlorobenzene					
1.3-Dichlorobenzene					
1.2-Dichlorobenzene	<del></del>				
1.4-Dichlorobenzene	<del></del>				
į					
				!	

LAB # 5757am	REALL		
CLIENT NAME			
SAMPLE ID			
	**********		*******
EPA METHOD	DATE:	EPA METHOD	DATE: 8/25/36
601	ANALYST:	602	ANALYST: C
	INSTRUMENT:		INSTRUMENT QQ
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)		(ug/L)
			1.
Chloromethane		Benzene	$\mathcal{N}\mathcal{D}$
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe	ne	M-Xylene	
Chloroform		O-Xylene	V
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			ļ
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroprop	ene	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropr	opane
1.1.2-Trichlorethane		l,4-Dichlorobutane	
cis-1.3-Dichloropropen		602	
2-Chloroethylvinyl eth	er	a,a,a,-Trifluoroto	luene
Bromoform	<u></u>		
1.1.2.2-Tetrachloretha			
Tetrachlorethylene			
Chlorobenzene			I
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			
1.4-Dichlorobenzene			

LAB #   RENGENT	BUNK		
CLIENT NAME			
SAMPLE ID			
EPA METHOD	DATE.	EDA METHOD	DATE: 8/25/36
601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	ANALYST: CO
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	$\sim 10^{-2}$
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	1
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe	ne	M-Xylene	
Chloroform		Q-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroprop	ene	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropre	opane
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloropropen	e	602	·
2-Chloroethylvinyl eth	er	a,a,a,-Trifluoroto	luene
Bromoform	· · · · · · · · · · · · · · · · · · ·		
1.1.2.2-Tetrachloretha	ne		
<u>Tetrachlorethylene</u>			
Chlorobenzene			
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			
1.4-Dichlorobenzene	· · · · · · · · · · · · · · · · · · ·		
			,
!		1	

LAB # _ SYSTAM BY	.X			
CLIENT NAME				
SAMPLE ID				
		**********		
EPA METHOD	DATE: 8 25/31-	CONTEM AGE	DATE:	
601	ANALYST: C/	602	ANALYST:	
	INSTRUMENT	<u></u>	INSTRUMENT:	
			<del></del>	
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION	
	(ug/L)	1	(ug/L)	
	<del></del>	<del> </del>	<del></del>	
Chloromethane		Benzene		
Bromomethane		Toluene		
Vinyl Chloride		Ethyl benzene		
Chloroethane		Chlorobenzene		
Methylene chloride		1.4-Dichlorobenzene		
Trichlorofluoromethane		1.3-Dichlorobenzene		
1.1-Dichlorethene		1.2-Dichlorobenzene		
1.1-Dichlorethane		P-Xylene		
Trans-1.2-Dichloroethene		M-Xylene		
Chloroform		0-Xylene		
1.2-Dichlorethane		1		
1.1.1-Trichlorethane				
Carbon tetrachloride		_		
Bromodichlormethane		<u>}</u>		
1.2-Dichloropropane		SURROGATE RECOVERIES:		
Trans-1.3-Dichloroproper	ie	601		
Trichloroethene		Bromochloromethan		
Dibromochloromethane		2-Bromo-1-Chloropropane		
1.1.2-Trichlorethane		l,4-Dichlorobutane		
cis-1.3-Dichloropropene		602		
2-Chloroethylvinyl ether		a,a,a,-Trifluorot	oluene	
Bromoform				
1.1.2.2-Tetrachlorethane	·	4		
Tetrachlorethylene		4		
Chlorobenzene		-		
1.3-Dichlorobenzene		-{		
1.2-Dichlorobenzene		•		
1.4-Dichlorobenzene		4		

ASSESTABLES OF THE SECOND CONTRACTOR OF THE SECOND CONTRACTOR OF THE SECOND TO THE SECOND TO THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SECOND THE SE

LAB # MEAGEN	BUNK		1	
CLIENT NAME				
SAMPLE ID				
*********			****	
EPA METHOD 601	DATE: 8 ANALYST INSTRUM	os/26 :: Cy ient: Ha	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENT		COMPOUND	CONCENTRATION (ug/L)
Chloromethane		20	Benzene	
Bromomethane		7 1	Toluene	
Vinyl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluoromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethen	e		M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane			]	
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane		<u> </u>	SURROGATE RECOVER	IES:
Trans-1.3-Dichloroprope	ne		601	
Trichloroethene			Bromochloromethan	e
Dibromochloromethane			2-Bromo-1-Chlorop	
1.1.2-Trichlorethane			l,4-Dichlorobutan	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ethe			a,a,a,-Trifluorot	oluene
Bromoform				
1.1.2.2-Tetrachlorethan	e		]	
Tetrachlorethylene				
Chlorobenzene				
1.3-Dichlorobenzene			]	
1.2-Dichlorobenzene				
1.4-Dichlorobenzene				
				; :
			}	
			İ	

LAB # 545% B	suan/L		
CLIENT NAME			
SAMPLE ID			
			********
EPA METHOD	DATE:	EPA METHOD	DATE: 8 >> /86
601	ANALYST:	602	ANALYST: C/ A
	INSTRUMENT:		INSTRUMENT
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)		(ug/L)
	······································		
Chloromethane		Benzene	NO
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe	ne	M-Xylene	
Chloroform		0-Xylene	<u> </u>
1.2-Dichlorethane			į
1.1.1-Trichlorethane			<u>{</u>
Carbon tetrachloride			•
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERING	ES:
Trans-1.3-Dichloroprop		601	-
Trichloroethene		Bromochloromethane	
Dibromochloromethane	<del></del>	2-Bromo-1-Chloropro	
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloropropen		602	
2-Chloroethylvinyl eth	er	a,a,a,-Trifluoroto	luene
Bromoform			
1.1.2.2-Tetrachloretha		]	
Tetrachlorethylene	<del></del>		
Chlorobenzene			;
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			
1.4-Dichlorobenzene	<del></del>	1	
		1	
			ĺ

RECOUNTED AND ACCOUNT BUCKSOSS - COLUMN STEEDS - SECURIO SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO DE SECURIO D

LAB # REAGENT	CLANK		
CLIENT NAME			
SAMPLE ID			
		***********	
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 8/20 1/20 ANALYST: CY INSTRUMENT POL
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	No
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1,4-Dichlorobenzene	
Trichlorofluoromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroether	ne	M-Xylene	<u> </u>
Chloroform		Q-Xylene	
1.2-Dichlorethane			1
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroprope	ene	601	0
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropro	
1.1.2-Trichlorethane	<del></del>	1,4-Dichlorobutane	<del></del>
cis-1.3-Dichloropropend		602	•
2-Chloroethylvinyl ethe	er	a,a,a,-Trifluoroto	luene
Bromoform			į
1.1.2.2-Tetrachlorethan			i
Tetrachlorethylene	·	4	:
Chlorobenzene		-	
1.3-Dichlorobenzene			1
1.2-Dichlorobenzene			
1.4-Dichlorobenzene		-	
			!

DATE:	78/55/8	SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Z Recovery
	INSTRUMENT		<u>D</u>	D	G	E
TEST METHOD	COMPOUND	**********				*********
EPA 601	EPA WP 483 CONC. 2					
	AND WP 781 CONC.3					
	Methylene Chloride	9.2				
	1.1-Dichloroethylene	10.0				
	Trans-1.2-Dichloroethylene	5.4				
	Chloroform	43.0			11.3	94
	1.2-Dichloroethane	27.6			1.0	50 /
	1.1.1-Trichlorethane	14.3			1.8	128
	Carbon Tetrachloride	20.0			2. 4	100
	Bromodichloromethane	7.9			2.1	105
	1.2-Dichloropropane	8.0				
	Trichloroethene	22.2			2.8	95
	Dibromochloromethane	16.7			2.6	100
	Bromoform	9.9			2.1	71
	1.1.2.2-Tetrachloroethane	10.0				
	Tetrachloroethene	6.2			1.4	86
	Chlorobenzene	8.2			·	
EPA 602	EPA - WP 879 CONC.1					
	Benzene	30.7	27.0	88		
	Toluene	4.1	4.1	100		
	Ethylbenzene	11.5	9,0	78		
<u> </u>	P-Xvlene	19.1	19.6	103		
	M-Xylene	42.6	40.0	94		
	0-Xylene	10.6	10,7	101		
EPA 608		(ug/g)				
	Aroclor 1242	58.7				
	Aroclor 1260	56.8				

P POOR INTEGRATION

\$222555 \$25555 \$255555 \$255555 \$355555 \$355555 \$3555555 \$3555555 \$3555555 \$3555555 \$3555555 \$3555555 \$3555555

DATE:	8/25/86		SPIKED VALUE	Analyzed	z	Analyzed	z
	0(13 (84		(ug/L)	Value	Recovery	Value	Recovery
	INSTR	UMENT		D	D	G	6
TEST		======	********	********			
METHOD	COMPOUND						
EPA 601	EPA WP 483 CONC. 2						
	AND WP 781 CONC.3						<u> </u>
	Methylene Chloride		9.2	<del></del>			
	1.1-Dichloroethylen	e	10.0				
	Trans-1.2-Dichloroe	thylene	5.4				
	Chloroform		43-012-0			1/3/1	109
	1.2-Dichloroethane		27.5 2.0			1-1	55 0
	1.1.1-Trichlorethan	e	14.31.4			1.7	119
	Carbon Tetrachlorid		20.00,6			2.6	100
	Bromodichloromethan		7.9D.0			2.3	115
	1.2-Dichloropropane		8.0				
	Trichloroethene		22.22.9			2.8	95
	Dibromochloromethan	e	10.72.6			3.1	47
	Bromoform		۹. ههو			2.3	80
	1.1.2.2-Tetrachloro	ethane	10.0				
	Tetrachloroethene		6-21.6			1.4	86
	Chlorobenzene		8,2			·	
EPA 602	EPA - WP 879 CONC.1						
	Benzene		30.7	25.9	84		
	Toluene		4.1	3.9	96		
	Ethylbenzene		11.5	8,9	77		
	P-Xvlene		19.1	19.4	102		
	M-Xvlene		42.6	39, 3	92		
	0-Xvlene		10.6	10.5	59		
EPA 608			(ug/g)		,		
	Aroclor 1242		58.7				
	Aroclor 1260		56.8				

P Coop INTEGRAL

DATE:	4/26/36		SPIKED VALUE (u_/L)	Analyzed Value	Z Recovery	Analyzed Value	% Recovery
		INSTRUMENT		G	G	$\mathcal{D}$	D
TEST			*******	*******	=======================================		
METHOD	COMPOUND						
EPA 601	EPA WP 483 C	ONC. 2					
	. AND WP 781 CO	NC.3					<u>.</u>
	Methylene Chl	oride	9.2				
	1.1-Dichloroe	thylene	10.0				
		hloroethylene	5.4				
	Chloroform		43.012.0	10.7	89		
	1.2-Dichloroe	thane	27.60.0	1.1	No		
	1.1.1-Trichlo	rethane	74.31.4	1.7	191		
	Carbon Tetrachloride		20.02-6	2.7	loy		
	Bromodichloromethane		7.90.0	2.4	151		
	1.2-Dichloropropage		8.0				
	Trichloroethe	ne	25.22	2.8	95		
	Dibromochloro		16-70.6	2.5	94		
	Bromoform		۹.۶ وړو	2,3	79		
	1.1.2.2-Tetra	chloroethane	10.0				
	Tetrachloroet	hene	8.21.6	1.4	87		
	Chlorobenzene		8.2				
EPA 602	EPA - WP 879	CONC.1					_
	Benzene		30.7			28.7	93
	Toluene		4.1			4. (	100
	Ethylbenzene		11.5			9,0	78
	P-Xylene		13.1			19.9	104
	M-Xvlene		42.6			40.8	96
	0-Xylene		10.6			10.8	109
EPA 608			(ug/g)				
	Aroclor 1242		58.7				- <del></del>
	Aroslor 1260		56.8				

# RADIAN

freed blunks de 80250-255:046, 11CFrees, 64, 602

860 253 860 257 860 255

	CHAIN OF CUSTODY RECORD		860 255
		Field Sample No.	800252
Company Sampled Address Plan Sample Point Description Sunf	nd 4 mu water		
Stream Characteristics: Temperature	Flow	рН	
Amount of Sample Collected 22 Sample Description Surface	Date/Time Sample  VUAS, 12 mason jus  Wat  -10°C Dother 4°C		
Caution - No more sample availabl Other Instructions - Special Handling	e □ Return unused portion of sample - Hazards		
Hazardous sample (see below)	□ Non-hazar	dous sample	
₩ Toxic	☐ Skin irritant	□ Flamm	able (FP< 40°C)
☐ Pyrophoric	☐ Lachrymator	☐ Shock	•
☐ Acidic	☐ Biological		ogenic - suspect
☐ Caustic ☐ Other	□ Peroxide	☐ Radioa	
Sample Allocation/Chain of Possessi Organization Name Received By Transported By Windy Young Comments	Date Received  Lab Sample No.	Ti	me
Organization Name AS Received By AW WAS Transported By Comments		5-12-86- Til 8092,093,09	пе <u>ССЭС</u> 14
Inclusive Dates of Possession			
Organization Name Received By			
Transported ByComments			
Inclusive Dates of Possession			

LAB # SYSTAM B	UN NK		L		
CLIENT NAME					
SAMPLE ID	<del></del>		<u> </u>	<del></del>	
EPA METHOD 601	DATE: 8/26 ANALYST: C INSTRUMENT		EPA METHOD 602	DATE: ANALYST: INSTRUMENT:	
COMPOUND	CONCENTRAT	CION	COMPOUND	CONCENTRATION (ug/L)	
Chloromethane	^	12	Benzene		
Bromomethane			Toluene		
Vinyl Chloride		<u> </u>	Ethyl benzene		
Chloroethane		1	Chlorobenzene		
Methylene chloride			1.4-Dichlorobenzene		
Trichlorofluoromethane	·		1.3-Dichlorobenzene		
1.1-Dichlorethene			1.2-Dichlorobenzene		
l.l-Dichlorethane			P-Xylene		
Trans-1.2-Dichloroethene			M-Xylene		
Chloroform			0-Xylene		
1.2-Dichlorethane					
l.l.l-Trichlorethane					
Carbon tetrachloride					
Bromodichlormethane					
1.2-Dichloropropane			SURROGATE RECOVER	IES:	
Trans-1.3-Dichloroproper	e		601		
Trichloroethene			Bromochloromethan	e	
Dibromochloromethane			2-Bromo-1-Chlorop	ropane	
1.1.2-Trichlorethane			1,4-Dichlorobutane		
cis-1.3-Dichloropropene			602		
2-Chloroethylvinyl ether	<u> </u>		a,a,a,-Trifluorot	oluene	
Bromoform			1		
1.1.2.2-Tetrachlorethane	·				
Tetrachlorethylene			}		
Chlorobenzene	<del> </del>		1		
1.3-Dichlorobenzene			4		
1.2-Dichlorobenzene			(		
1.4-Dichlorobenzene	11.7		l		

112 1 00000 1000	IV		<u> </u>	<del></del>
LAB # NETGENT BUAN	JE			
CLIENT NAME			<del> </del>	
SAMPLE ID				
	7477	726/82	PRESERVATION OF	
EPA METHOD	DATE:	100/06	EPA METHOD	DATE:
601	ANALYS	-/	602	ANALYST:
	INSTRU	MENT Jur	time	INSTRUMENT:
COMPOUND	CONCEN	TRATION	COMPOUND	CONCENTRATION
COMPOUND			COMPOUND	(ug/L)
	( ug	/L)		( ug/ L)
	1		ļ	
Chloromethane	<u></u>	7	Benzene	
Bromomethane		<b></b>	Toluene	
Vinyl Chloride			Ethyl benzene	
Chloroethane		<u> </u>	Chlorobenzene	
Methylene chloride	<del></del> .	<u> </u>	1.4-Dichlorobenzene	
Trichlorofluoromethane		<u> </u>	1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane		<del> </del>	P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	<del></del>
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane	<del>  </del>		1	
Carbon tetrachloride				
Bromodichlormethane			1	
1.2-Dichloropropane			SURROGATE RECOVER:	IES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene			Bromochloromethan	
Dibromochloromethane			2-Browo-1-Chlorop	
1.1.2-Trichlorethane			1,4-Dichlorobutane	e
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether	<del></del>		a,a,a,-Trifluoroto	oluene
Bromoform				
1.1.2.2-Tetrachlorethane	<del></del>			
Tetrachlorethylene				
Chlorobenzene			1	
1.3-Dichlorobenzene				
1.2-Dichlorobenzene	<del></del>			
1.4-Dichlorobenzene	<u>~</u>		-	
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LAB # 5757am	RLANK			
CLIENT NAME				
SAMPLE ID				
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EPA METHOD	DATE:	EPA METHOD	DATE: 8 35 34	
601	ANALYST:	602	ANALYST:	
	INSTRUMENT:		ANALYST: C	
		<del>}</del>		
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)	
	(48/11)		(48, 11)	
Chloromethane		Benzene		
Bromomethane		Toluene		
Vinyl Chloride		Ethyl benzene	<del></del>	
Chloroethane		Chlorobenzene		
Methylene chloride	<del></del>	1.4-Dichlorobenzene		
Trichlorofluoromethane		1.3-Dichlorobenzene		
1.1-Dichlorethene		1.2-Dichlorobenzene	·	
1.1-Dichlorethane		P-Xylene		
Trans-1,2-Dichloroethe	ne	M-Xylene		
Chloroform	<u> </u>	Q-Xylene		
1.2-Dichlorethane				
1.1.1-Trichlorethane		7	1	
Carbon tetrachloride		1	<b>.</b>	
Bromodichlormethane		1		
1.2-Dichloropropane		SURROGATE RECOVERI	Es:	
Trans-1.3-Dichloroprop	ene	601		
Trichloroethene		Bromochloromethane		
Dibromochloromethane		2-Bromo-1-Chloropr	opane	
1.1.2-Trichlorethane		1,4-Dichlorobutane		
cis-1.3-Dichloropropen		602	ļ	
2-Chloroethylvinyl eth	er	a,a,a,-Trifluoroto	luene	
Bromoform		_}	Ì	
1.1.2.2-Tetrachloretha				
<u>Tetrachlorethylene</u>		_		
Chlorobenzene		4	!	
1.3-Dichlorobenzene		-[		
1.2-Dichlorobenzene		-		
1.4-Dichlorobenzene		4		
		į		

LAB # REAGENT	BUNK				
CLIENT NAME					
SAMPLE ID					
******	**********	************	*******		
EPA METHOD	DATE:	EPA METHOD	DATE: 8/25/36		
601	ANALYST:	602	ANALYST:		
	INSTRUMENT:		INSTRUMENTS Q		
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION		
	(ug/L)	}	(ug/L)		
<del></del>		<del> </del>	<del></del>		
Chloromethane		Benzene	<u> </u>		
Bromomethane		Toluene			
Vinyl Chloride	· · · · · · · · · · · · · · · · · ·	Ethyl benzene			
Chloroethane	<del></del>	Chlorobenzene			
Methylene chloride		1.4-Dichlorobenzene			
Trichlorofluoromethane		1.3-Dichlorobenzene			
1.1-Dichlorethene		1.2-Dichlorobenzene			
1.1-Dichlorethane		P-Xylene			
Trans-1.2-Dichloroethe		M-Xylene			
Chloroform		0-Xylene			
1.2-Dichlorethane		-			
1.1.1-Trichlorethane		.]			
Carbon tetrachloride		.[			
Bromodichlormethane					
1.2-Dichloropropane		SURROGATE RECOVERIES:			
Trans-1.3-Dichloroprop	ene	601			
Trichloroethene		Bromochloromethane			
Dibromochloromethane		2-Bromo-1-Chloropr			
1.1.2-Trichlorethane	<del></del>	1,4-Dichlorobutane			
cis-1.3-Dichloropropen		_ 602			
2-Chloroethylvinyl eth	er	a,a,a,-Trifluorotoluene			
Bromoform		.ļ			
1.1.2.2-Tetrachloretha		.[			
Tetrachlorethylene					
Chlorobenzene		-			
1.3-Dichlorobenzene		.[			
1.2-Dichlorobenzene					
1.4-Dichlorobenzene		-			
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LAB # SYSTAM BUY			
CLIENT NAME		<del> </del>	<del></del>
			<del></del>
SAMPLE ID			
EPA METHOD 601	DATE: { > /3/- ANALYST: C/ INSTRUMENT Y	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	7-0	Benzene	
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	·
Trans-1.2-Dichloroethene		M-Xylene	<del></del>
Chloroform		0-Xylene	
Chloroform  1.2-Dichlorethane  1.1.1-Trichlorethane  Carhon tetrachloride  Bromodichlormethane  1.2-Dichloropropane  Trans-1.3-Dichloropropene  Trichloroethene  Dibromochloromethane  1.1.2-Trichlorethane  cis-1.3-Dichloropropene  2-Chloroethylvinyl ether  Bromoform  1.1.2.2-Tetrachlorethane  Tetrachlorethylene  Chlorobenzene  1.3-Dichlorobenzene  1.2-Dichlorobenzene  1.4-Dichlorobenzene		SURROGATE RECOVERI 601 Bromochloromethane 2-Bromo-1-Chloropr 1,4-Dichlorobutane 602 a,a,a,-Trifluoroto	opane
			· :

KARAT BERKIRA SINSKINA DIPERSIA PIPERSIA VITERIA PERSINSIA BERKINSI PERCECCIA BERKINSIA BERKINA Ka

CLIENT NAME  SAMPLE ID  EPA METHOD DATE: 8/35/34 EPA METHOD DATE: 601 ANALYST: 602 ANALYST: INSTRUMENT: INSTRUMENT:	LAB # YI CAGGAT	BUNK	1	
FPA METHOD DATE: 8/35/36 EPA METHOD DATE: 601 ANALYST: C. INSTRUMENT:  COMPOUND CONCENTRATION (ug/L)  Chloromethane Bromomethane Final Chlorodename Winyl Chloride Chlorotehane Methylene chloride Chlorotehane Methylene chloride 1.4-Dichlorodename 1.1-Dichlorotehane 1.1-Dichlorotehane 1.1-Dichlorotehane 1.1-Dichlorotehane 1.1-Dichlorotehane 1.1-Dichlorotehane 1.2-Dichlorotehane 1.2-Dichlorotehane 1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.1-Dichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-Trichlorotehane 1.1-Z-T				
EPA METHOD DATE: 8 35/36				
601 ANALYST: CINSTRUMENT:  COMPOUND CONCENTRATION (ug/L)  Chloromethane Fromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluoromethane 1,1-Dichlorothene 1,1-Dichlorethane 1,2-Dichlorobenzene 1,2-Dichlorothene Chloroform 1,2-Dichlorothane 1,1-Trichlorethane 1,1-Trichlorethane 1,1-Trichlorethane 1,1-Trichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Trichlorothane 1,1-Trichlorethane 1,1-Trichlorethane 1,1-Trichlorethane 1,1-Trichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Cis=1,3-Dichloropropene Cis=1,3-Dichloropropene Chloroform 1,1,2,Trichlorethane 1,1-Trichlorethane Cis=1,3-Dichloropropene Chlorobenzene 1,1-Dichlorobenzene Chlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene	***********	********	************	
601 ANALYST: CINSTRUMENT:  COMPOUND CONCENTRATION (ug/L)  Chloromethane Fromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluoromethane 1,1-Dichlorothene 1,1-Dichlorethane 1,2-Dichlorobenzene 1,2-Dichlorothene Chloroform 1,2-Dichlorothane 1,1-Trichlorethane 1,1-Trichlorethane 1,1-Trichlorethane 1,1-Trichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Trichlorothane 1,1-Trichlorethane 1,1-Trichlorethane 1,1-Trichlorethane 1,1-Trichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Trans=1,3-Dichloropropene Cis=1,3-Dichloropropene Cis=1,3-Dichloropropene Chloroform 1,1,2,Trichlorethane 1,1-Trichlorethane Cis=1,3-Dichloropropene Chlorobenzene 1,1-Dichlorobenzene Chlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene	EPA METHOD	DATE: 8/25/36	EPA METHOD	DATE:
INSTRUMENT:  COMPOUND  CONCENTRATION (ug/L)  Chloromethane  Bromomethane  Vinyl Chloride  Chloroethane  Methylene chloride  Trichlorofluoromethane  1.1-Dichlorobenzene  1.1-Dichlorothane  1.1-Dichlorothane  Trans-1.2-Dichlorothane  1.2-Dichlorobenzene  1.1-Irichlorethane  1.1-Irichlorethane  1.1-Irichlorothane  1.1-Irichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  1.1.2-Trichlorethane  1.1-Trichlorethane  1.1-Trichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  1.1-Trichloropropane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  1.1-Trichlorethane  Trans-1.3-Dichloropropane  Trans-1.3-Dichloropropane  1.1-Dichlorobutane  Carbon tetrachloride  Bromochloromethane  1.4-Dichlorobutane  602  a,a,a,-Trifluorotoluene  Tetrachlorethylene  Chloropenzene  1.3-Dichlorobenzene  1.3-Dichlorobenzene  1.2-Dichlorobenzene	601	ANATYCT.O.	602	ANALYST:
COMPOUND  CONCENTRATION (ug/L)  Chloromethane  Bromomethane  Chloromethane  Chlorodenzene  Chlorodenzene  Chlorodenzene  Chlorodenzene  Chlorodenzene  Chlorodenzene  Chlorodenzene  Chlorodenzene  Chlorodenzene  1.4-Dichlorodenzene  1.2-Dichlorodenzene  1.1-Dichlorethane  Carbon tetrachloride  Bromodichlormethane  1.2-Dichloropropane  Trans=1.3-Dichloropropene  Trichlorothene  Carbon tetrachloride  Bromodichlormethane  1.1-Trichlorethane  1.2-Dichloropropene  Carbon tetrachloride  Bromochloromethane  1.1-Trichloropropene  Carbon tetrachloride  Bromochloromethane  1.1-Trichloropropene  Chlorodenzene  1.1-Trichloropropene  Cis-1.3-Dichloropropene  Cis-1.3-Dichloropropene  Chlorodenzene  Chlorobenzene  Chlorobenzene  1.3-Dichlorobenzene  Chlorobenzene  1.3-Dichlorobenzene  Chlorobenzene  1.3-Dichlorobenzene  1.3-Dichlorobenzene		INSTRUMENT:	1 .	INSTRUMENT:
Chloromethane Bromomethane Vinyl Chloride Chloroethane Vinyl Chloride Chloroethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluoromethane 1,4-Dichlorobenzene 1,1-Dichlorethane 1,1-Dichlorethane Trans-1,2-Dichloroethene Chloroform Trans-1,2-Dichloroethene Chloroform T,2-Dichloroethane T,1-Trichlorethane Trans-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,2-Dichloroethene Dibromochloromethane 1,1-Trichlorethane 1,1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1,2-Dichloropropene Trans-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,1-Trichlorethane Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Cis-1,3-Dichloropropene Chloroethylvinyl ether Bromoform 1,1,2,2-Tetrachlorethane Chlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene			Marin	
Chloromethane Bromomethane Vinyl Chloride Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Trichlorofluoromethane 1.1-Dichlorethane 1.2-Dichloroethane Chloroform 1.2-Dichloroethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans=1.3-Dichloropropene Chloroethane Clarbon tetrachloride Bromochloromethane 1.1-Trichlorethane Carbon tetrachloride Chloroethane Carbon tetrachloride Chloroethane Carbon tetrachloride Carbon tetrachloride Chloroethane Carbon tetrachloride Chloroethane Carbon tetrachloride Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethylvinyl ether Chloroethylvinyl ether Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene	COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
Chloromethane Bromomethane Vinyl Chloride Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Trichlorofluoromethane 1.1-Dichlorethane 1.2-Dichloroethane Chloroform 1.2-Dichloroethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans=1.3-Dichloropropene Chloroethane Clarbon tetrachloride Bromochloromethane 1.1-Trichlorethane Carbon tetrachloride Chloroethane Carbon tetrachloride Chloroethane Carbon tetrachloride Carbon tetrachloride Chloroethane Carbon tetrachloride Chloroethane Carbon tetrachloride Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethylvinyl ether Chloroethylvinyl ether Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene		(ug/L)	Ì	(ug/L)
Bromomethane Vinyl Chloride Chloroethane Methylene chloride Trichlorofluoromethane 1.4-Dichlorobenzene 1.1-Dichlorothane 1.1-Dichlorothane 1.1-Dichlorothane Trans-1.2-Dichloroethane 1.2-Dichlorothane Trans-1.2-Dichloroethane 1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trichloroethane 1.1-Trichloroethane 1.1-Trichloroethane 1.2-Dichloropropane Trichloroethane 1.2-Dichloropropane Trichloroethane 1.1-Trichloroethane 1.1-Trichlorethane 1.1-Trichloroethane 1.1-Trichloroethane 1.1-Trichloroethane 1.1-Trichloroethane 1.1-Trichloroethane 1.1-Trichloropropene 602 2-Chloroethylvinyl ether Bromoform 1.1.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.1-Dichlorobenzene 1.2-Dichlorobenzene				<del></del>
Bromomethane  Yinyl Chloride  Chloropethane  Methylene chloride  Trichlorofluoromethane  1,4-Dichlorobenzene  1,1-Dichloropenzene  1,1-Dichloropenzene  1,1-Dichloropenzene  1,1-Dichloropenzene  1,1-Dichloropenzene  1,1-Dichloropenzene  1,2-Dichloropenzene  1,2-Dichloropenzene  1,2-Dichloropene  Chloroform  1,2-Dichloropene  Carbon tetrachloride  Bromodichlormethane  1,2-Dichloropropane  Trichloropene  1,2-Dichloropene  Bromochloromethane  1,2-Trichlorethane  1,2-Trichlorethane  2-Bromo-1-Chloropropane  1,4-Dichloropropane  1,4-Dichloropene  602  2-Chloropenylvinyl ether  Bromoform  1,1,2-Tetrachlorethane  Chloropenzene  1,3-Dichloropenzene  1,3-Dichloropenzene  1,3-Dichloropenzene  1,3-Dichloropenzene  1,3-Dichloropenzene  1,3-Dichloropenzene  1,3-Dichloropenzene	Chloromethane	$\mathcal{J}_{\mathcal{D}}$	Benzene	_
Vinyl ChlorideEthyl benzeneChloroethaneChlorobenzeneMethylene chloride1.4-DichlorobenzeneTrichlorofluoromethane1.3-Dichlorobenzene1.1-Dichlorethene1.2-Dichlorobenzene1.1-DichlorethaneP-XyleneTrans-1.2-DichloroetheneM-XyleneChloroform0-Xylene1.2-Dichlorethane0-XyleneCarbon tetrachlorideSURROGATE RECOVERIES:Bromodichlornethane5URROGATE RECOVERIES:1.2-Dichloropropane601TrichloroetheneBromochloromethane1.1.2-Trichlorethane1.4-Dichlorobutanecis-1.3-Dichloropropene6022-Chloroethylvinyl ethera,a,a,-TrifluorotolueneBromoform1.1.2.2-TetrachlorethaneChlorobenzene1.3-Dichlorobenzene1.3-Dichlorobenzene1.3-Dichlorobenzene1.2-Dichlorobenzene1.2-Dichlorobenzene		7		
Chloropethane Methylene chloride Trichlorofluoromethane 1.4-Dichlorobenzene 1.1-Dichlorethene 1.1-Dichlorethane 1.1-Dichlorothene 1.2-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorothene Chloroform 1.2-Dichlorothane 1.1-Trichlorethane 1.2-Dichloropropane 1.2-Dichloropropane Trans-1.3-Dichloropropene Trans-1.3-Dichloropropene 1.1.2-Trichlorethane 1.1.2-Trichlorethane 1.1.2-Trichlorethane 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Topichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.1.2-Trichloropropene 1.2-Dichloropropene 1.2-Dichloropropene 1.2-Dichloropropene 1.3-Dichloropropene				
Methylene chloride Trichlorofluoromethane 1.3-Dichlorobenzene 1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform 1.2-Dichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trichloroethene Dibromochloromethane 1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trichloroethene Dibromochloromethane 1.1-Trichlorethane Carbon tetrachloride Bromodichloromethane 1.2-Dichloropropane Trichloroethene Dibromochloromethane 1.1-Trichlorethane Cis-1.3-Dichloropropene Chloroethylvinyl ether Bromoform Tl.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene	Chloroethane			
Trichlorofluoromethane  1.1-Dichlorethene 1.1-Dichlorethane Trans-1.2-Dichloroethene Chloroform 1.2-Dichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trichlorethene Dibromochloromethane 1.1.2-Trichlorethane Cis-1.3-Dichloropropene Chloroform  Trichloroethene Dibromochloromethane 1.1.2-Trichlorethane Cis-1.3-Dichloropropene Chloropropene Chloroethylvinyl ether Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene	Methylene chloride			
1.1-Dichlorethane	Trichlorofluoromethane		1.3-Dichlorobenzene	
Trans-1.2-Dichloroethene Chloroform  1.2-Dichlorethane 1.1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans-1.3-Dichloropropene Dibromochloromethane 1.1.2-Trichlorethane Cis-1.3-Dichloropropene Cis-1.3-Dichloropropene Bromoform 1.1.2.2-Tetrachlorethane Tetrachlorethylvinyl ether Chlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene	1.1-Dichlorethene		1.2-Dichlorobenzene	
Chloroform  1.2-Dichlorethane  1.1.1-Trichlorethane  Carbon tetrachloride  Bromodichlormethane  1.2-Dichloropropane  Trichloroethene  Dibromochloromethane  1.1.2-Trichlorethane  Cis-1.3-Dichloropropene  Bromoform  1.1.2.2-Tetrachlorethane  Chlorobenzene  1.3-Dichlorobenzene  1.3-Dichlorobenzene  1.3-Dichlorobenzene  1.3-Dichlorobenzene  1.2-Dichlorobenzene	1.1-Dichlorethane		P-Xylene	
1.2-Dichlorethane 1.1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans-1.3-Dichloropropene Dibromochloromethane 1.1.2-Trichlorethane 1.1.2-Trichlorethane cis-1.3-Dichloropropene 2-Chloroethylvinyl ether Bromoform 1.1.2.2-Tetrachlorethane Chlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene	Trans-1.2-Dichloroethen	e	M-Xylene	
L.1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans=1.3-Dichloropropene Trichlorethene Dibromochloromethane 1.1.2-Trichlorethane 1.1.2-Trichlorethane 2-Bromo-1-Chloropropane 1.4-Dichlorobutane 602 2-Chloroethylvinyl ether Bromoform 1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene	Chloroform		0-Xylene	
Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans-1.3-Dichloropropene Trichloroethene Dibromochloromethane 1.1.2-Trichlorethane cis-1.3-Dichloropropene Bromoform 1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorobenzene			4	
Bromodichlormethane 1.2-Dichloropropane SURROGATE RECOVERIES: 601 Trichloroethene Dibromochloromethane 1.1.2-Trichlorethane cis-1.3-Dichloropropene 2-Chloroethylvinyl ether Bromoform 1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorobenzene		<u></u>	_	
1.2-DichloropropaneSURROGATE RECOVERIES:Trans-1.3-Dichloropropene601TrichloroetheneBromochloromethaneDibromochloromethane2-Bromo-1-Chloropropane1.1.2-Trichlorethane1,4-Dichlorobutanecis-1.3-Dichloropropene6022-Chloroethylvinyl ethera,a,a,-TrifluorotolueneBromoform1.1.2.2-TetrachlorethaneTetrachlorethyleneChlorobenzene1.3-Dichlorobenzene1.2-Dichlorobenzene1.2-Dichlorobenzene1.2-Dichlorobenzene			_	
Trans-1.3-Dichloropropene  Trichloroethene  Dibromochloromethane  1.1.2-Trichlorethane  cis-1.3-Dichloropropene  2-Bromo-1-Chloropropane  1,4-Dichlorobutane  602  2-Chloroethylvinyl ether  Bromoform  1.1.2.2-Tetrachlorethane  Tetrachlorethylene  Chlorobenzene  1.3-Dichlorobenzene  1.2-Dichlorobenzene  1.2-Dichlorobenzene		<u>-</u>	_	
Trichloroethene  Dibromochloromethane  1.1.2-Trichlorethane  cis-1.3-Dichloropropene  Bromochloromethane  1,4-Dichlorobutane  602  2-Chloroethylvinyl ether  Bromoform  1.1.2.2-Tetrachlorethane  Tetrachlorethylene Chlorobenzene  1.3-Dichlorobenzene  1.2-Dichlorobenzene			-1	IES:
Dibromechloromethane  1.1.2-Trichlorethane  cis-1.3-Dichloropropene  2-Bromo-1-Chloropropane  1,4-Dichlorobutane  602  2-Chloroethylvinyl ether  Bromoform  1.1.2.2-Tetrachlorethane  Tetrachlorethylene  Chlorobenzene  1.3-Dichlorobenzene  1.2-Dichlorobenzene		ne	-1	
1.1.2-Trichlorethane cis-1.3-Dichloropropene 2-Chloroethylvinyl ether Bromoform 1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorobenzene				
cis-1.3-Dichloropropene 2-Chloroethylvinyl ether Bromoform 1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.2-Dichlorobenzene				
2-Chloroethylvinyl ether a,a,a,-Trifluorotoluene Bromoform  1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene			-1 -	e
Bromoform  l.1.2.2-Tetrachlorethane  Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene			1	
1.1.2.2-Tetrachlorethane Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene		r	a,a,a,-Trifluoroto	oluene
Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene			-[	
Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene /		e	-[	
1.3-Dichlorobenzene / 1.2-Dichlorobenzene / /		<del></del>	-	
1.2-Dichlorobenzene		<del></del>	•	
		<del></del>	-	
1.4-Dichioropenzene		<del></del>	-	
	1.4-niculoropenzene		-	
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LAB # 54570-1	SUM		
CLIENT NAME			
SAMPLE ID			
************		***********	
EPA METHOD	DATE:	EPA METHOD	DATE:8/>>/86
601	ANALYST:	602	ANALYST: CI
	INSTRUMENT:		INSTRUMENT
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	NO
Bromomethane	<del></del>	Toluene	
Vinyl Chloride	<del></del>	Ethyl benzene	<del></del>
Chloroethane	<del></del>	Chlorobenzene	<del></del>
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethan		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroeth	ene	M-Xylene	
Chloroform		Q-Xylene	V
1.2-Dichlorethane			
1.1.1-Trichlorethane			ļ
Carbon tetrachloride	····		
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER:	IES:
Trans-1.3-Dichloropro		601	
Trichloroethene		Bromochloromethane	•
Dibromochloromethane		2-Bromo-1-Chloropi	ropane
1.1.2-Trichlorethane		1,4-Dichlorobutane	e
cis-1.3-Dichloroproper		602	!
2-Chloroethylvinyl etl	her	a,a,a,-Trifluoroto	oluene
Bromoform	<del></del>		į
1.1.2.2-Tetrachloretha			i
Tetrachlorethylene		1	:
Chlorobenzene			1
1.3-Dichlorobenzene	<del> </del>		i ,
1.2-Dichlorobenzene			ĺ
1.4-Dichlorobenzene			
		1	
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LAB # REAGENT	MANK	1			
CLIENT NAME					
SAMPLE ID					
	**********	************			
EPA METHOD	DATE:	EPA METHOD	DATE: 3/20 /26		
601	ANALYST:	602	ANALYST: C		
	INSTRUMENT:		INSTRUMENT COL		
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)		
Chloromethane		Benzene	No		
Bromomethane		Toluene	ì		
Vinvl Chloride		Ethyl benzene			
Chloroethane		Chlorobenzene			
Methylene chloride		1.4-Dichlorobenzene			
Trichlorofluoromethan	e	1.3-Dichlorobenzene			
1.1-Dichlorethene		1.2-Dichlorobenzene			
1.1-Dichlorethane		P-Xylene			
Trans-1.2-Dichloroethe	ene	M-Xylene			
Chloroform		0-Xylene			
1.2-Dichlorethane	<del></del>				
1.1.1-Trichlorethane					
Carbon tetrachloride					
Bromodichlormethane			į		
1.2-Dichloropropane	<del> </del>	SURROGATE RECOVERI	ES:		
Trans-1.3-Dichloropro	pene	601			
Trichloroethene		Bromochloromethane	·		
Dibromochloromethane		2-Bromo-1-Chloropropane			
1.1.2-Trichlorethane	<del> </del>	l,4-Dichlorobutane			
cis-1.3-Dichloroproper	ne	602	ļ.		
2-Chloroethylvinyl etl	her	a,a,a,-Trifluorotoluene			
Bromoform					
1.1.2.2-Tetrachloretha		.]			
<u>Tetrachlorethylene</u>			!		
Chlorobenzene	<del></del>		į		
1.3-Dichlorobenzene	<del></del>				
1.2-Dichlorobenzene					
1.4-Dichlorobenzene	<del></del>				
		1			
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	ימ	AILY QUALI RAS GO	TY CONTROL			
DATE:	78/20/8	SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	Reco
	INSTRUMENT		<u>D</u>	0	G	G
TEST		*****				
METHOD	COMPOUND					{
EPA 601	EPA WP 483 CONC. 2					ĺ
	AND WP 781 CONC.3					
	Methylene Chloride	9.2	<del> </del>			
	1.1-Dichloroethylene	10.0				!
	Trans-1.2-Dichloroethylene	5.4	<del> </del>			
	Chloroform	43.0	ļ		11.3	9
	1.2-Dichloroethane	27.6	<u> </u>		1,0	2
	1.1.1-Trichlorethane	14.3	<del> </del>		1.8	1.
	Carbon Tetrachloride	20.0	<del> </del>		2.6	10
	Bromodichloromethane	7.9			2.1	10
	1.2-Dichloropropane	8.0				
	Trichloroethene	22.2	<del> </del>		2.8	नः
	Dibromochloromethane	16.7	<del> </del>		2.6	10
	Bromoform	9.9	<del> </del>		2.1	
	1.1.2.2-Tetrachloroethane	10.0	ļ			
	Tetrachloroethene	6.2			1.4	8
	Chlorobenzene	8.2	<u> </u>			
EPA 602	EPA - WP 879 CONC.1	1	1	20		: ì
	Benzene	30.7	27.0	88	<del></del>	
	Toluene	4.1	4.1	70		
	Ethylbenzene	11.5	9,0	78		
	P-Xylene	19.1	19.6	103		
	M-Xylene	42.6	40.0	94		
	0-Xylene	10.6	10,7	101		
EPA 608		(ug/g)				
	Aroclor 1242	58.7				
	A LOCIOI 1260 N INTEGNALIN	56.8	<u> </u>		<u> </u>	

DATE:	8/25/86	SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	1	Recovery
	INSTRUMENT		D	D	G	6
TEST METHOD	COMPOUND	**********				******
EPA 601	EPA WP 483 CONC. 2					
	AND WP 781 CONC.3					
	Methylene Chloride	9.2	<del></del>			
	1.1-Dichloroethylene	10.0				
	Trans-1.2-Dichloroethyler					
	Chloroform	43-019-0			1/3.1	109
	1.2-Dichloroethane	27.5 2.0			1.1	55 8
	1.1.1-Trichlorethane	14.31-4			1.7	119
	Carbon Tetrachloride	20.00			2.6	100
	Bromodichloromethane	7.90.0			2.3	115
	1.2-Dichloropropane	8.0				
	Trichloroethene	22,23,9			2.8	95
	Dibromochloromethane	10.72.6			3.1	47
	Bromoform	2.92.9			2.3	80
	1.1.2.2-Tetrachloroethane	10.0				54
	Tetrachloroethene	6-21.6	·		1.4	86
	Chlorobenzene	8.2				
EPA 602	EPA - WP 879 CONC.1		- 60	_		
	Benzene	30.7	25.9	84		
	Toluene	4.1	3.9	96		
	Ethylbenzene	11.5	8,9	77		
	P-Xylene	19.1	19. Y	102		
	M-Xylene	42.6	39, 3	92	-	
	0-Xylene	10.6	10.5	9		
EPA 608		(ug/g)	,			
	Aroclor 1242	58.7				
	Aroclor 1260	56.8			t	

P Con INTEGRALA

	אַם	AILY QUALIT				
DATE:	4/21/24	SPIKED VALUE (ul/L)	Analyzed Value	% Recovery	Analyzed Value	Reco
	INSTRUMENT		G	G	7	D
TEST METHOD	COMPOUND					
EPA 601	EPA WP 483 CONC. 2			{		
	AND WP 781 CONC.3					
	Methylene Chloride	9.2				
	1.1-Dichloroethylene	10.0				
	Trans-1.2-Dichloroethylene	5.4	<del></del>			
	Chloroform	43.012.0	10.7	89		
	1.2-Dichloroethane	27.60.0	1.)	224		
	l.l.l-Trichlorethane	14.31.4	1:7	191		ļ
	Carbon Tetrachloride	20.02-6	2.7	loy		
	Bromodichloromethane	7.90.0	2.4	131		
	1.2-Dichloropropane	8.0	0.2			
	Trichloroethene	22.92.9	2.8	95		
	Dibromochloromethane	15.70.6	2.5	94		
	Bromoform	9.6 وو	2,3	79		
	1.1.2.2-Tetrachloroethane	10.0	1.4	87		
	Tetrachloroethene	6.21.6	1.7	0 (		
	Chlorobenzene	8.2				
EPA 602	EPA - WP 879 CONC.1				28.7	9:
1	Benzene Toluene	30.7			4. (	100
	Ethylbenzene	4.1			5,2	78
	P-Xvlene	19.1			19.9	104
	M-Xylene	42.6			40.8	96
	0-Xvlene	10.6		<del></del>	10.8	103
EPA 608		(ug/g)				
	Aroclor 1242	58.7				
	Aroclor 1260	56.8				

#### DAILY QUALITY CONTROL RAS CC LAB

		AILY QUALI RAS ©	TY CONTROL LAB			
		SPIKED	<del></del> ,			<del></del>
DATE:	8-29-86	VALUE	Analyzed Yalue	% Recovery	Analyzed Value	Rec
	LNSTRUMENT		$\mathcal{D}$	D		
TEST	*********************		*=======			====:
METHOD	COMPOUND	·				
EPA 601	EPA WP 483 CONC. 2					
	Chloroform	12.0				!
	1.2-Dichloroethane	2.0				-
	1.1.1-Trichloroethane	1.4				!
	Carbon Tetrachloride	2.6			<del></del>	
	Bromodichloromethane	2.0				<del></del>
	Trichloroethene	2.9				-
<del></del>	Dibromochloromethane	2.6		-	<del></del>	! 
	Bromoform	2.9	<u> </u>			<u> </u>
	Tetrachloroethene	1.6	<u> </u>			
EPA 602	EPA - WP 879 CONC.1		0-0			
	Benzene	30.7	25.3	54		
	Toluene	4.1	38	93	<del></del>	
	Ethylbenzene	11.5	3.4	7.3		
	P-Xylene	19.1	13.8	98		
<del></del>	M-Xylene	42.6	38,4	90		
<del></del>	0-Xylene	10.6	1C.3	96		
EPA 608		(ug/g)				
	Aroclor 1242	58.7				
	Arocior 1260	56.8		<u>'</u>		<u> </u>

DATE:	8-27-86	SPIKED VALUE (uo/L)	Analyzed Value	% Recovery	Analyzed Value	\$ Recovery
	INSTRUMENT		9	G	0	D
TEST METHOD	COMPOUND					
EPA 601	EPA WP 483 CONC. 2					
	Chloroform	12.0	11.9	99		
	1.2-Dichloroethane	2.0	1,1	55®		
	1.1.1-Trichloroethane	1.4	1,7	113		
	Carbon Tetrachloride	2.6	an	104		
	Bromodichioromethane	2.0	1 a.c	150		
	<u>Trichloroethene</u>	2.9	2.9	100		_
	Dibromochloromethane	2.6	l 2.7	102		
	Bromoform	2.9	3.2	76		
	Tetrachloroethene	1.6	1,5	93		
EPA 602	EPA - WP 879 CONC.1	}				
	Benzene	30.7			36.1	35
	Toluene	4.1			4.1	ICC
	Ethylbenzene	11.5			8.8	77
	P-Xylene	19.1			19.1	100
	M-Xylene	42.6			38,7	91
	0-Xylene	10.6			10,3	97
EPA 608		(ug/g)				
	Aroclor 1242	58.7				
	Aroclor 1260	56.8	ļ	!		

& pas integration

DATE:	8-26-86	SPIKED VALUE (ug/L)	Analyzed Yajue	% Recovery	Analyzed Yalue	% Recovery
	INSTRUMENT		G	9	D	D
TEST METHOD EPA 601	COMPOUND EPA WP 483 CONC. 2				F=====================================	
	Chloroform	12.0	107	79	: 	
	1.2-Dichloroethane	2.0	1,1	550		
	1.1.1-Trichloroethane	1.4	レルフ	121		
	Carbon Tetrachloride	2.6	<i>a</i> .7	104		
	Bromodichloromethane	2.0	2.4	121		
	Trichloroethene	2.9	as	95		
	Dibromochloromethane	2.6	2.5	941		·
	Bromoform	2.9	2.3	97		··
	Tetrachloroethene	1.6	1.4	37		
EPA 602	EPA - WP 879 CONC.1					
	Benzene	30.7			38.7	93
	Toluene	4.1			4.1	100
	Ethylbenzene	11.5			9.0	78
	P-Xylene	19.1			19.9	104
	M-Xylene	42.6			40.8	96
	O-Xylene	10.6			11.3	102
EPA 608	Aroclor 1242	(ug/g) _58,7				
	Aroclor 1260	56.8		ı		

& poor integration

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DATE:	7-35-86	SPIKED VALUE (ug/L)	Analyzed Yalue	<b>%</b> Recovery	Analyzed Value	% Recovery
	INSTRUMENT		D	D	G	G
	=======================================	 				
TEST METHOD	COMPOUND					•
EPA 601	EPA WP 483 CONC. 2					
	Chloroform	12.0			13.1	109
	1.2-Dichloroethane	2.0			1,1	558
	1.1.1-Trichloroethane	1.4			1.7	119
	Carbon Tetrachloride	2.6			24	100
	Bromodichloromethane	2.0			2.3	115
	Trichloroethene	2.9			a.8	95
	Dibromochloromethane	2.6			3.1	117
	Bromoform	2.9	ļ		3.3	80
	Tetrachloroethene	1.6			1.4	86
EPA 602	EPA - WP 879 CONC.1		{			
	Benzene	30.7	25.9	34		
	Toluene	4.1	·39	90		
	Ethylbenzene	11.5	8.9	77		
	P-Xylene	19.1	19.4	102		
	M-Xylene	42.6	39.3	93		
	0-Xylene	10.6	10.5	99		
EPA 608		(ug/g)				
	Aroclor 1242	58.7		ļ		
	Aroclor 1260	56.8		!		

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CLIENT NAME			
SAMPLE ID			
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 3/24/3L ANALYST: INSTRUMENTALL
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	·	Benzene	.10
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethane		1.3-Dichlorobenzene	· ]
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethene	<u> </u>	M-Xylene	$I_{i}$
Chloroform		0-Xylene	$\mathcal{Y}$
1.2-Dichlorethane			
1.1.1-Trichlorethane		]	
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroproper	ne	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropr	
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ether		a,a,a,-Trifluoroto	luene
Bromoform			
1.1.2.2-Tetrachlorethan	•	]	
Tetrachlorethylene		j	
Chlorobenzene		]	
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			
1.4-Dichlorobenzene			

LAB # CON 65M	BLANK					
CLIENT NAME						
SAMPLE ID		1				
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EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 8/24/7L ANALYST: RI INSTRUMENT DOL			
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)			
Chloromethane	`	Benzene	N2			
Bromomethane		Toluene				
Vinyl Chloride		Ethyl benzene				
Chloroethane		Chlorobenzene				
Methylene chloride		1.4-Dichlorobenzene				
Trichlorofluoromethane		1.3-Dichlorobenzene				
1.1-Dichlorethene		1.2-Dichlorobenzene				
1.1-Dichlorethane		P-Xylene				
Trans-1.2-Dichloroethe		M-Xylene				
Chloroform		0-Xylene				
1.2-Dichlorethane		4	-			
1.1.1-Trichlorethane		-				
Carbon tetrachloride		-(				
Bromodichlormethane		-				
1.2-Dichloropropane		SURROGATE RECOVERIES:				
Trans-1.3-Dichloropror		_ 601				
Trichloroethene		Bromochloromethane				
Dibromochloromethane		2-Bromo-1-Chloropropane				
1.1.2-Trichlorethane		1,4-Dichlorobutane	·			
cis-1.3-Dichloroproper		602				
2-Chloroethylvinyl eth	ner	a,a,a,-Trifluoroto	luene			
Bromoform		4	•			
1.1.2.2-Tetrachloretha						
Tetrachlorethylene		4				
Chlorobenzene		4				
1.3-Dichlorobenzene		-				
1.2-Dichlorobenzene		-	•			
1.4-Dichlorobenzene		-				

SAMPLE ID			
EPA METHOD 601	DATE 3/37/16 ANALYST: Cy INSTRUMENT 1	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	No	Benzene	
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	<del> </del>
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethane	<del></del>	1.3-Dichlorobenzene	
l.l-Dichlorethene		1.2-Dichlorobenzene	
l.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethen	<u>e</u>	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane 1.1.1-Trichlorethane Carbon tetrachloride Bromodichlormethane 1.2-Dichloropropane Trans-1.3-Dichloroprope Trichloroethene Dibromochloromethane 1.1.2-Trichlorethane cis-1.3-Dichloropropene 2-Chloroethylvinyl ethe Bromoform 1.1.2.2-Tetrachlorethan Tetrachlorethylene Chlorobenzene 1.3-Dichlorobenzene 1.2-Dichlorobenzene 1.4-Dichlorobenzene	ne i	SURROGATE RECOVER 601 Bromochloromethan 2-Bromo-1-Chlorop 1,4-Dichlorobutan 602 a,a,a,-Trifluorot	ee

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EPA METHOD DATE: 7/27/36		EPA METHOD	DATE:	
901	601 ANALYST: Q INSTRUMENT LL		602	ANALYST: INSTRUMENT:
COMPOUND	CONCENTR		COMPOUND	CONCENTRATION
COM COMD	(ug/L		Goin Gonz	(ug/L)
Chloromethane	No	,	Benzene	
Bromomethane			Toluene	
Vinvl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride	T T		1.4-Dichlorobenzene	
Trichlorofluoromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane			1	
Carbon tetrachloride			Ī	
Bromodichlormethane	i		]	
1.2-Dichloropropane			SURROGATE RECOVER	IES:
Trans-1.3-Dichloropropen	e		601	
Trichloroethene			Bromochloromethane	<u> </u>
Dibromochloromethane			2-Bromo-1-Chloropi	ropane
1.1.2-Trichlorethane			1,4-Dichlorobutane	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	oluene
Bromoform				
1.1.2.2-Tetrachlorethane				
Tetrachlorethylene				
Chlorobenzene				
1.3-Dichlorobenzene				
1.2-Dichlorobenzene				
1.4-Dichlorobenzene	•			
		_	1	
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EPA METHOD 601	DATE: 73434 ANALYST: 4 INSTRUMENT		EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
СОМЪОЛИД	CONCENTRATI	ION	COMPOUND	CONCENTRATION (ug/L)
Chloromethane	البر	0	Benzene	
Bromomethane			Toluene	
Vinyl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluoromethane			1.3-Dichlorobenzene	· .
1.1-Dichlorethene			1.2-Dichlorobenzene	<del></del>
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethen	e		M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroprope	ne		601	
Trichloroethene			Bromochloromethane	
Dibromochloromethane			2-Bromo-1-Chloropr	opane
1.1.2-Trichlorethane			1,4-Dichlorobutane	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ethe	r		a,a,a,-Trifluoroto	luene
Bromoform				
1.1.2.2-Tetrachlorethan	e			
Tetrachlorethylene			ł	
Chlorobenzene				
1.3-Dichlorobenzene				
1.2-Dichlorobenzene				
1.4-Dichlorobenzere	<u> </u>			

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EPA METHOD 601	DATE: 8 7 ANALYST INSTRUM	: ė,	EPA METHOD 602	DATE: ANALYST: INSTRUMENT:
COMPOUND	CONCENT		СОМРОПИД	CONCENTRATION (ug/L)
Chloromethane		No	Benzene	
Bromomethane	<b>✓</b>	$\mathcal{A}$	Toluene	
Vinvl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluoromethane		$\perp$	1.3-Dichlorobenzene	
1.1-Dichlorethene		$T_{-}$	1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene		L	M-Xylene	
Chloroform			0-Xvlene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVER	IES:
Trans-1.3-Dichloropropen	<u> </u>		601	
Trichloroethene			Bromochloromethan	e
Dibromochloromethane			2-Bromo-1-Chlorop	ropane
1.1.2-Trichlorethane			1,4-Dichlorobutan	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluorot	oluene
Bromoform				
1.1.2.2-Tetrachlorethane			]	
Tetrachlorethylene				
Chlorobenzene				
1.3-Dichlorobenzene			.]	
1.2-Dichlorobenzene	V			
1.4-Dichlorobenzene			1	
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CLIENT NAME			
SAMPLE ID			
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EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 8/25 BC ANALYST: RO INSTRUMENT OL
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	$\mathcal{N}_{\mathcal{D}}$
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethan	e	1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroeth	ene	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane		]	
Carbon tetrachloride			
Bromodichlormethane		 	
1.2-Dichloropropane	<del></del>	SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropro	pene	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropr	
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloroprope		602	
2-Chloroethylvinyl et	her	a,a,a,-Trifluoroto	luene
Bromoform	<del></del>		
1.1.2.2-Tetrachloreth			
<u>Tetrachlorethylene</u>		1	
Chlorobenzene		_	
1.3-Dichlorobenzene	<del></del>		
1.2-Dichlorobenzene		.[	
1.4-Dichlorobenzene	<del></del>		

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CLIENT NAME			
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EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE:8 > 8L ANALYST: C INSTRUMENTO
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	~\s\
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluorometha	ne	1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroet	hene	M-Xylene	
Chloroform		0-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane	<del> </del>		
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropro	opene	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropr	opane
1.1.2-Trichlorethane		l,4-Dichlorobutane	
cis-1.3-Dichloroprop		602	
2-Chloroethylvinyl e	ther	a,a,a,-Trifluoroto	luene
Bromoform			
1.1.2.2-Tetrachloret	hane		
Tetrachlorethylene			
Chlorobenzene			
1.3-Dichlorobenzene			
1.2-Dichlorobenzene	· · · · · · · · · · · · · · · · · · ·		
1.4-Dichlorobenzene		1	

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plastic 8	20201 - WILEUZ, 625, NexUS.	· · · · · · · · · · · · · · · · · · ·
+ abluster	Wall - WI, EUZ, 625, Mexils.  HI FLUS, OHG, KANI	Field Sample No.
Company Sampled / Addres	18 17/(in 7 4	
Sample Point Description	grandialu	
ষ্ট্ৰ Stream Characteristics:	,	
	Flow	pH
Visual Observations/Comm		
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Collector's Name 1/12	ed la mason, 4-11 plastic, 1-11	pled $8/20 - 8/21/86$
Amount of Sample Collecte	ed lamgem 4.11 plastic, 1.11	gens, 6 VOAS
Sample Description	Owel our	
Store at: 🗆 Ambient 🗆	5°C □ -10°C □ Other _ 4°C	
_	· <del></del>	nic Discord unused portions
Caution - No more samp	ole available 🔲 Return unused portion of sam	bie [] Discard dinased bottoms
Other Instructions · Specia	ıl Handling · Hazards	
Hazardous sample (see	below)	zardous sample
Hazardous sample (see	below) □ Non-ha □ Skin-jrritant □ Lachrymator □ Biological	☐ Flammable (FP< 40°C) ☐ Shock sensitive ☐ Carcinogenic - suspect
Toxic  Pyrophoric	□ Skin irritant	☐ Flammable (FP< 40°C) ☐ Shock sensitive
☐ Pyrophoric☐ Acidic	□ Skin-jrritant □ Skin-jrritant □ Biological	☐ Flammable (FP< 40°C) ☐ Shock sensitive ☐ Carcinogenic · suspect
Toxic  Pyrophoric  Acidic  Caustic  Other	□ Skin irritant □ Lachrymator □ Biological □ Peroxide	☐ Flammable (FP< 40°C) ☐ Shock sensitive ☐ Carcinogenic · suspect
☐ Toxic ☐ Pyrophoric ☐ Acidic ☐ Caustic ☐ Other	□ Skin irritant □ Lachrymator □ Biological □ Peroxide	☐ Flammable (FP< 40°C) ☐ Shock sensitive ☐ Carcinogenic · suspect ☐ Radioactive
☐ Toxic ☐ Pyrophoric ☐ Acidic ☐ Caustic ☐ Other	□ Skin irritant □ Lachrymator □ Biological □ Peroxide	☐ Flammable (FP< 40°C) ☐ Shock sensitive ☐ Carcinogenic - suspect ☐ Radioactive
☐ Toxic ☐ Pyrophoric ☐ Acidic ☐ Caustic ☐ Other	□ Skin irritant □ Lachrymator □ Biological □ Peroxide	☐ Flammable (FP< 40°C) ☐ Shock sensitive ☐ Carcinogenic - suspect ☐ Radioactive
Toxic  Pyrophoric  Caustic  Other  Sample Allocation/Chain of Communication Name  Received By  Transported By	Skin irritant  Lachrymator  Biological  Peroxide  of Possession:  Lachrymator  Date Receive	☐ Flammable (FP< 40°C) ☐ Shock sensitive ☐ Carcinogenic · suspect ☐ Radioactive  red Time
Toxic  Pyrophoric  Caustic  Other  Sample Allocation/Chain of Communication Name  Received By  Transported By	Skin irritant  Lachrymator  Biological  Peroxide  of Possession:  Lachrymator  Date Receive	☐ Flammable (FP< 40°C) ☐ Shock sensitive ☐ Carcinogenic · suspect ☐ Radioactive  red Time
☐ Toxic ☐ Pyrophoric ☐ Acidic ☐ Caustic ☐ Other ☐ Organization Name ☐ Received By ☐ Transported By ☐ Comments ☐ Inclusive Dates of Possess	Skin irritant   Lachrymator   Biological   Peroxide     Of Possession:   Date Received   Lab Sample No	☐ Flammable (FP< 40°C) ☐ Shock sensitive ☐ Carcinogenic · suspect ☐ Radioactive  ed Time
Toxic  Pyrophoric  Acidic  Caustic  Other  Organization Name  Received By  Transported By  Comments  Inclusive Dates of Possess	Skin irritant    Lachrymator   Biological   Peroxide  of Possession:	□ Flammable (FP< 40°C) □ Shock sensitive □ Carcinogenic · suspect □ Radioactive  red Time
Toxic  Pyrophoric  Caustic  Caustic  Other  Organization Name  Received By  Transported By  Comments  Inclusive Dates of Possess  Organization Name  Received By	Skin irritant    Lachrymator   Biological   Peroxide  of Possession:	□ Flammable (FP< 40°C) □ Shock sensitive □ Carcinogenic · suspect □ Radioactive  red □ Time □ □ □
Toxic  Pyrophoric  Acidic  Caustic  Other  Organization Name  Received By  Transported By  Linclusive Dates of Possess  Organization Name  Received By  Transported By  Transported By  Transported By	Date Receives Lab Sample No.    Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.   Date Receives Lab Sample No.	□ Flammable (FP< 40°C) □ Shock sensitive □ Carcinogenic · suspect □ Radioactive  red Time
Toxic  Pyrophoric  Caustic  Caustic  Other  Sample Allocation/Chain of Companization Name  Received By  Transported By  Linclusive Dates of Possess  Organization Name  Received By  Transported By  Comments  Comments  Comments  Comments  Comments  Comments	Date Received Lab Sample No.    Lab Sample No	□ Flammable (FP< 40°C) □ Shock sensitive □ Carcinogenic · suspect □ Radioactive  ed Time
Toxic  Pyrophoric  Acidic  Caustic  Other  Sample Allocation/Chain of Organization Name Received By Transported By  Comments Inclusive Dates of Possess Organization Name Received By Transported By  Comments Inclusive Dates of Possess	Skin irritant   Lachrymator   Biological   Peroxide     Of Possession:   Date Received   Lab Sample No.     Sion   S/2U - S/21/87-   Cambrel   Date Received   Lab Sample No.   Sion   Lab Sample No.   Sion   Lab Sample No.   Sion   Lab Sample No.   Sion   Lab Sample No.   Sion   Lab Sample No.   Sion   Lab Sample No.   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Sion   Si	□ Flammable (FP< 40°C) □ Shock sensitive □ Carcinogenic · suspect □ Radioactive  ed Time
Toxic  Pyrophoric  Caustic  Caustic  Other  Sample Allocation/Chain of Companization Name  Received By  Transported By  Linclusive Dates of Possess  Organization Name  Received By  Transported By  Comments  Inclusive Dates of Possess  Inclusive Dates of Possess  Organization Name  Comments  Inclusive Dates of Possess	Skin irritant   Lachrymator   Biological   Peroxide	□ Flammable (FP< 40°C) □ Shock sensitive □ Carcinogenic · suspect □ Radioactive  ed Time
Toxic  Pyrophoric  Caustic  Caustic  Other  Sample Allocation/Chain of Organization Name Received By Transported By Comments Inclusive Dates of Possess Organization Name Received By Transported By Comments Inclusive Dates of Possess Organization Name Received By Comments Inclusive Dates of Possess Organization Name Received By Received By	Skin irritant   Lachrymator   Biological   Peroxide	□ Flammable (FP< 40°C) □ Shock sensitive □ Carcinogenic · suspect □ Radioactive  ed Time  red 3 3 3 5 6 Time  red Time
Toxic  Pyrophoric  Acidic  Caustic  Other  Sample Allocation/Chain of Organization Name Received By Transported By Comments Inclusive Dates of Possess Organization Name Received By Transported By Comments Inclusive Dates of Possess Organization Name Received By Comments Inclusive Dates of Possess Organization Name Received By Transported By Transported By	Skin irritant   Lachrymator   Biological   Peroxide	□ Flammable (FP< 40°C) □ Shock sensitive □ Carcinogenic · suspect □ Radioactive  red Time  red Time  red Time

### RADIAN

860268 601,604625, Metals, Core, Herried S. Robord 860268 601,604625, Metals, Core, HEF, My860 757 860259 " 820758

**CHAIN OF CUSTODY RECORD** 

820259

	Fie	eld Sample No
Company Sampled Address Plan	+4	
Sample Point Description College	of writer	
Stream Characteristics:	•	
	Flow	nН
		•
Collector's Name With 44 Vo	Date/Time Sampled_	8/21/82 /815
Amount of Sample Collected 4 m450	n 3-12 Nush, 3 Sover plast	4.11 dlass, 12 VU A
Sample Description province w	24-	
Store at: ☐ Ambient ☐ 5°C ☐ -	10°C Bother 4°C	
	Return unused portion of sample	
1	Hazards	
Hazardous sample (see below)	□ Non-hazardou	s sample
D'Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
☐ Pyrophoric	□ Lachrymator	□ Shock sensitive
☐ Acidic	☐ Biological	Carcinogenic - suspect
☐ Caustic	☐ Peroxide	☐ Radioactive
Other		
Sample Allocation/Chain of Possessio	n:	
Organization Name Ballin	Cap	
Received By	Date Received Lab Sample No	Time
Transported By Mending	Lab Sample No.	
Comments		
Inclusive Dates of Possession	5/21/86	
Organization Name MS		
	U Date Received &	12 86 Time 0830
Transported By WJ	Lab Sample No. 360909.	3,095
Comments	100 00	
Inclusive Dates of Possession		
Organization Name		
	Date Received	Time
	Lab Sample No	
	· · · · · · · · · · · · · · · · · · ·	
nclusive Dates of Possession		

#8608093

field blunks

820250-355:0.6, 1/CFres, 601, 602

2 860754 820757 820757 820755

CHAIN OF CUSTODY RECORD

	Fie	old Sample No. Sull Services
<b></b>		
Company Sampled/Address <u>Plan</u> Sample Point Description <u>Surf</u> u	14	
Sample Point Description Sunfu	u water	
Stream Characteristics:		
Temperature	Flow	PH
Visual Observations/Comments		. '
		·.
Collector's Name Gay Hund	Cugn Date/Time Sampled_	8/20/84
Amount of Sample Collected 22 Va	1As, 17 mason ilus	
Sample Description Surfue	wat	
Amount of Sample Collected <u>72 Valles</u> Sample Description <u>Stanface</u> Store at:   Ambient   5 C   -1	0°C Other 4°C	
_	••	ill.
Caution · No more sample available	$\square$ Return unused portion of sample $\square$	Discard unused portions
Other Instructions - Special Handling - H	lazards	
Hazardous sample (see below)	☐ Non-hazardou	is sample
Martoxic	☐ Skin irritant	☐ Flammable (FP< 40°C)
/ □ Pyrophoric	☐ Lachrymator	□ Shock sensitive
□ Acidic	☐ Biological	☑ Carcinogenic · suspect
☐ Caustic	☐ Peroxide	☐ Radioactive
□ Other		
		•
Sample Allocation/Chain of Possession	1:	
Organization Name <u>Radice</u> Received By	ing	
Received By	Date Received	Time
Transported By _ hlmly Yorn &	Lab Sample No.	
	<u> </u>	
Inclusive Dates of Possession <u>8/20</u>	-8/21/8/2	AND THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T
Organization Name	<u> </u>	S. I.
Received By AMI AMANIA		-22-86 Time 0830
Transported By WJ	Lab Sample No	092,093,094
Comments	<u> </u>	÷ • 17:
Inclusive Dates C. Possession		
Organization Name		
Received By		Time
Transported By		
Comments	•	
Inclusive Dates of Possession		

### RADIAN

820247-250 HC Firefo Oil + Greage 86-08-094 860147 560248 820249

#### **CHAIN OF CUSTODY RECORD**

		Field Sample No. 20035
Company Samuladi Address AF A	014 m 1 4	
Company Sampled Address AF A	1111	
•		
Stream Characteristics:	_	
		pH
Visual Observations/Comments		
Collector's Name Gull He	Elecon Date/Time Sam	pled
Amount of Sample Collected 8	nusin jus	
Sample Description Strafecus	with	
Store at: Ambient 5°C -	10°C Bother 4°C	
According No. 1981		
Caution · No more sample available		
Other Instructions - Special Handling -	Hazards	
Hazardous sample (see below)	□ Non-ha	zardous sample
≱ Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C
□ Pyrophoric	☐ Lachrymator	□ Shock sensitive
□ Acidic	☐ Biological	Carcinogenic - suspect
□ Caustic	☐ Peroxide	☐ Radioactive
Other		
Sample Allocation/Chain of Possessio	n:	
Organization Name Back un	Corn	
Received By	Date Receive	edTime
ransported By Gaus Hand	Lab Sample No.	86-08-94
Jomments		
nclusive Dates of Possession $\frac{S/2}{}$	0/82	
Organization Name		
Received By Ud.	Date Receive	ed 8-94-86 Time 9.36
ransported By	Lab Sample No.	
nclusive Dates of Possession		
Organization Name		
Received By		
ransported By		
comments	•	

### RADIAN

Inclusive Dates of Possession

Freid blunks a 800550-355:046, 11CFres, 64, 602

860 253 860 257 860 255

860254

1	CHAIN OF CUSTODY RECORD	860 255
!		800252
	,	Field Sample No Sall 350
Company Sampled/Address Plan Sample Point Description Suf	14	
Sample Point Description _ Sunf	uce water	
Stream Characteristics:		
Temperature	Flow	<b></b>
Visual Observations/Comments		
Collector's Name Gary Hun	duan Date/Time Samp	led 8/20/52
Amount of Sample Collected 22 V	UAS, 12 masur jus	
Sample Description Surfue	war	
Store at: ☐ Ambient ☐ 5°C ☐ -	10°C ⊕Other 4°C	
Caution · No more sample available	☐ Return unused portion of samp	le 🛘 Discard unused portions
Other Instructions - Special Handling -	Hazards	
Hazardous sample (see below)	□ Non-haza	ardous sample
<b>™</b> Toxic	☐ Skin irritant	☐ Flammable (FP< 40°C
☐ Pyrophoric	☐ Lachrymator	☐ Shock sensitive
□ Acidic	☐ Biological	<b>∠</b> Carcinogenic - suspect
☐ Caustic	☐ Peroxide	⊂ Radioactive
Other		
Sample Allocation/Chain of Possession	on:	
Organization Name Radio	Cap	
Received By	Date Received	Time
Organization Name Rule (and Received By Transported By Windy Yolm)	St Lab Samole No.	08 - 094
Comments		
Inclusive Dates of Possession 8/20	1-8/21/82	
Organization Name (A.S.	, ,	
Received By MU MM ASW	\ Data Received	4-12 St. Time (530
Transported By WJ	Lab Sample No. 200	08092,093,094
Comments	1	200.001
Inclusive Dates of Possession		
Organization Name		
Received By		
Transported By	Lab Sample No.	

LAB # SYSTEM BI	ANK			
CLIENT NAME				
SAMPLE ID				
*******	********	,===		*****
EPA METHOD	DATE: 8 34	18L	EPA METHOD	DATE:
601	ANALYST: C	ر سرالوع	602	ANALYST: INSTRUMENT:
		יייעני		
COMPOUND	CONCENTRAT	CION	COMPOUND	CONCENTRATION (ug/L)
<del></del>		7	<del></del> _	
Chloromethane	^	12	Benzene	
Bromomethane			Toluene	
Vinyl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluoromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene		1	1.2-Dichlorobenzene	
1.1-Dichlorethane		1	P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane	}			
1.2-Dichloropropage			SURROGATE RECOVERI	IES:
Trans-1,3-Dichloroproper	e		601	
Trichloroethene			Bromochloromethane	·
Dibromochloromethane			2-Bromo-1-Chloropr	
1.1.2-Trichlorethane			1,4-Dichlorobutane	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	oluene
Bromoform				
1.1.2.2-Tetrachlorethane				
Tetrachlorethylene				
Chlorobenzene				
1.3-Dichlorobenzene				
1.2-Dichlorobenzene				
1.4-Dichlorobenzene	V/			
				:

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			<del>,                                      </del>	<del> </del>
LAB # NETGENT BUA				
CLIENT NAME				<del></del>
SAMPLE ID				
****************	******	7		***********
EPA METHOD		726/86	EPA METHOD	DATE:
601	ANALYS	T:C	602	ANALYST:
	INSTRU	MENT: Yeur	rise	INSTRUMENT:
COMPOUND	CONCEN	TRATION	COMPOUND	CONCENTRATION
COMPOUND			COMPOUND	(ug/L)
	( ug	(/L)	<u> </u>	( ug / L /
Chloromethane	J		Benzene	
Bromomethane	<del></del>	(	Toluene	
Vinyl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluoromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			0-Xylene	
1.2-Dichlorethane				
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane		SURROGATE RECOVER:	IES:	
Trans-1.3-Dichloropropen	e		601	
Trichloroethene			Bromochloromethane	<u> </u>
Dibromochloromethane			2-Bromo-1-Chloropi	copane
1.1.2-Trichlorethane			1,4-Dichlorobutane	·
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether			a,a,a,-Trifluoroto	oluene
Bromoform				
1.1.2.2-Tetrachlorethane			1	
<u>Tetrachlorethylene</u>				
Chlorobenzene				
1.3-Dichlorobenzene	!-		j	
1.2-Dichlorobenzene	11/			
1.4-Dichlorobenzene			1	
			1	:
			}	
			]	
				ĺ
			1	

LAB # 54574	- RLANK		
CLIENT NAME			
SAMPLE ID			
*************		*********	********
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 3/35/3 L ANALYST: C; INSTRUMENT OO
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	ND
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane	<del></del>	Chlorobenzene	
Methylene chloride	<del></del>	1.4-Dichlorobenzene	
Trichlorofluoromethan	le .	1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroeth	ene	M-Xylene	
Chloroform		0-Xvlene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER	IES:
Trans-1.3-Dichloropro		601	
Trichloroethene		Bromochloromethane	•
<u>Dibromochloromethane</u>		2-Bromo-1-Chlorop	ropane
1.1.2-Trichlorethane		1,4-Dichlorobutane	·
cis-1.3-Dichloroprope		602	
2-Chloroethylvinyl et	her	a,a,a,-Trifluorote	oluene
Bromoform			
1.1.2.2-Tetrachloreth			
Tetrachlorethylene			
Chlorobenzene		1	
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			
1.4-Dichlorobenzene	<del></del>	-	
			•
			•
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		1	
		1	

LAB # RENGENT	BUNK		
CLIENT NAME			
SAMPLE ID			
EPA METROD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 8/25/36 ANALYST: CI INSTRUMENT DI
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	んり
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe	ne	M-Xylene	
Chloroform		O-Xylene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			ļ
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERIES:	
Trans-1.3-Dichloroprop	ene	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane	·····	2-Bromo-1-Chloropr	opane
1.1.2-Trichlorethane		l,4-Dichlorobutane	
cis-1.3-Dichloropropen		602	
2-Chloroethylvinyl eth	er	a,a,a,-Trifluoroto	luene
Bromoform			
1.1.2.2-Tetrachloretha			
Tetrachlorethylene			
Chlorobenzene			
1.3-Dichlorobenzene			
1.2-Dichlorobenzene			
1.4-Dichlorobenzene	<del> </del>		

LAB # SYSTAM BUM	<i>X</i> _	1		<del></del>
CLIENT NAME				
SAMPLE ID				
*************	*********			*********
EPA METHOD	DATE: 8 25/31	. 1	EPA METHOD	DATE:
601	ANALYST: C	}	602	ANALYST:
	INSTRUMENT 2	1	•	INSTRUMENT:
<del></del>		W.	<u> </u>	
COMPOUND	CONCENTRATIO	ON	COMPOUND	CONCENTRATION
	(ug/L)	ı		(ug/L)
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<del>\</del>		
Chloromethane	1	1	9	
Bromomethane		-	Benzene Toluene	
Vinvl Chloride			Ethyl benzene	
Chloroethane			Chlorobenzene	
Methylene chloride			1.4-Dichlorobenzene	
Trichlorofluoromethane			1.3-Dichlorobenzene	
1.1-Dichlorethene			1.2-Dichlorobenzene	
1.1-Dichlorethane			P-Xylene	
Trans-1.2-Dichloroethene			M-Xylene	
Chloroform			O-Xylene	
1.2-Dichlorethane			O-WATERE	
1.1.1-Trichlorethane				
Carbon tetrachloride				
Bromodichlormethane				
1.2-Dichloropropane			SURROGATE RECOVERI	ES:
Trans-1.3-Dichloropropen			601	
Trichloroethene			Bromochloromethane	
Dibromochloromethane			2-Bromo-1-Chloropro	
1.1.2-Trichlorethane			1,4-Dichlorobutane	
cis-1.3-Dichloropropene			602	
2-Chloroethylvinyl ether	·		a,a,a,-Trifluoroto	luene
Bromoform				
1.1.2.2-Tetrachlorethane				
Tetrachlorethylene				
Chlorobenzene				
1.3-Dichlorobenzene				
1.2-Dichlorobenzene	1.1.4			
1.4-Dichlorobenzene	\overline{U}			
)		•
		1		
		-		!
		- 1		(

LAB # MENGENT	BUNK		
CLIENT NAME		<u> </u>	· · · · · · · · · · · · · · · · · · ·
SAMPLE ID		<u> </u>	- <u> </u>
			· 在名字的名词复数 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
EPA METHOD	DATE: 8/35/36	EPA METHOD	DATE:
601	ANALYST: C	602	ANALYST:
	INSTRUMENT:	desia	INSTRUMENT:
			
COMPOUND	CONCENTRATION	COMPOUND	CONCENTRATION
	(ug/L)	1	(ug/L)
Chloromethane	$\lambda \rho$	Benzene	
Bromomethane	71	Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	·
Trichlorofluoromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethen	e	M-Xvlene	
Chloroform		0-Xvlene	
1.2-Dichlorethane			
1.1.1-Trichlorethane			
Carbon tetrachloride		_]	
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVER	RIES:
Trans-1.3-Dichloroprope	ne	601	
Trichloroethene		Bromochloromethan	
Dibromochloromethane		2-Bromo-1-Chlorop	ropane
1.1.2-Trichlorethane		1,4-Dichlorobutan	e
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ethe	r	a,a,a,-Trifluorot	oluene
Bromoform		-	
1.1.2.2-Tetrachlorethan	e	-	
Tetrachlorethylene		-(
Chlorobenzene		4	
1.3-Dichlorobenzene		•	
1.2-Dichlorobenzene			
1.4-Dichlorobenzene		4	
			•
		1	•
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		I .	

LAB # 545 Ton B	1914L		
CLIENT NAME			
SAMPLE ID			
**********	**********	*******	********
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 8/ >>/8L ANALYST: C/ INSTRUMENT • OL
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	N_0
Bromomethane		Toluene	
Vinvl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethane		1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichlorogthen	le	M-Xylene	
Chloroform	·	O-Xylene	V
1.2-Dichlorethane			
1.1.1-Trichlorethane			ļ
Carbon tetrachloride			
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERIE	ES:
Trans-1.3-Dichloroprope		601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropro	
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloropropene		602	
2-Chloroethylvinyl ethe	er	a,a,a,-Trifluorotol	uene
Bromoform			
1.1.2.2-Tetrachlorethan			
<u>Tetrachlorethylene</u>		1	
Chlorobenzene			
1.3-Dichlorobenzene		1	
1.2-Dichlorobenzene			
1.4-Dichlorobenzene			

LAB # [LEAGENT	BLANK	1	
CLIENT NAME			
SAMPLE ID			
	**********	*****	*********
EPA METHOD 601	DATE: ANALYST: INSTRUMENT:	EPA METHOD 602	DATE: 8/20 16 ANALYST: CY INSTRUMENT OF
COMPOUND	CONCENTRATION (ug/L)	COMPOUND	CONCENTRATION (ug/L)
Chloromethane		Benzene	No
Bromomethane		Toluene	
Vinyl Chloride		Ethyl benzene	
Chloroethane		Chlorobenzene	
Methylene chloride		1.4-Dichlorobenzene	
Trichlorofluoromethane	·	1.3-Dichlorobenzene	
1.1-Dichlorethene		1.2-Dichlorobenzene	
1.1-Dichlorethane		P-Xylene	
Trans-1.2-Dichloroethe	ne	M-Xylene	1/
Chloroform		0-Xylene	
1.2-Dichlorethane	· 	1	
1.1.1-Trichlorethane	······································		
Carbon tetrachloride		.]	
Bromodichlormethane			
1.2-Dichloropropane		SURROGATE RECOVERI	ES:
Trans-1.3-Dichloroprop	ene	601	
Trichloroethene		Bromochloromethane	
Dibromochloromethane		2-Bromo-1-Chloropr	opane
1.1.2-Trichlorethane		1,4-Dichlorobutane	
cis-1.3-Dichloropropen		602	
2-Chloroethylvinyl eth	ier	a,a,a,-Trifluoroto	luene
Bromoform			
1.1.2.2-Tetrachloretha			
<u>Tetrachlorethylene</u>			
Chlorobenzene			ļ
1.3-Dichlorobenzene			
1.2-Dichlorobenzene		•	
1.4-Dichlorobenzene			

E CARRESTE STATEMENT CONTRACTOR DESCRIPTION OF THE STATEMENT OF THE STATEM

DAILY QUALITY CONTROL RAS GC LAB

DATE:	48/00/18		SPIKED VALUE (ug/L)	Analyzed Value	Z Recovery	Analyzed Value	% Recovery
	I	NSTRUMENT		<u>D</u>	0	G	F
TEST METHOD	COMPOUND				*******		
EPA 601	EPA WP 483 CON	C. 2					
	AND WP 781 CONC	.3					
	Methylene Chlor	ide	9.2				
	1.1-Dichloroeth	vlene	10.0				
	Trans-1.2-Dichl	oroethylene	5.4				
	Chloroform		43.0			1.3	94
	1.2-Dichloroeth	ane	27.6			1,0	50%
	1.1.1-Trichlore	thane	14.3			1.8	128
	Carbon Tetrachl	oride	20.0			2.6	100
	Bromodichlorome	thane	7.9			2.1	105
	1.2-Dichloropro	pane	8.0				
	Trichloroethene	<u> </u>	22.2			2.8	45
	Dibromochlorome	thane	16.7			2.6	100
	Bromoform		9.9			2.1	71
	1.1.2.2-Tetrach	loroethane	10.0				
	Tetrachloroethe	ne	6.2			1.4	86
	Chlorobenzene		8.2				~~~~~
EPA 602	EPA - WP 879 CO	NC.1					
	Benzene	30.7	27,0	88			
	Toluene		4.1	4.1	100		
	Ethylbenzene		11.5	9,0	78		
	P-Xylene		19.1	19.6	103		
	M-Xylene		42.6	40.0	94		
	0-Xylene		10.6	10,7	101		
EPA 608			(ug/g)		,		
	Aroclor 1242		58.7				
	Aroclar 1260		56.8				

P POOR INTEGRATION

POCOCONO DE CONTRO DECENTRO DE CONTR

DAILY QUALITY CONTROL RAS GC LAB

		DAILY QUALIT				
DATE:	8/25/86	SPIKED VALUE (ug/L)	Analyzed Value	% Recovery	Analyzed Value	Rec
	INSTRUMEN	IT .	D	D	G	-
TEST METHOD	COMPOUND		********			: E R E
EPA 601	EPA WP 483 CONC. 2			{		
	AND WP 781 CONC.3					
	Methylene Chloride	9.2				
	1.1-Dichloroethylene	10.0				
	Trans-1.2-Dichloroethyl	ene 5.4				
	Chloroform	43-012-0			13.1	lo
	1.2-Dichloroethane	27.6 2.0			-(_5
	1.1.1-Trichlorethane	14.31-4			1.7	
	Carbon Tetrachloride	20.00,6			2.6	10
	Bromodichloromethane	7.90.0			2.3	10
	1.2-Dichloropropane	8.0			6.3	
	Trichloroethene	22.22.9			2.8	4
	Dibromochloromethane	16.72.6			3.1	U
	Bromoform	ای کی وجو			2.3	<u>8</u>
	1.1.2.2-Tetrachloroetha	me 10.0				
	Tetrachloroethene	6-21.6			1.4	8
	Chlorobenzene	8.2				
EPA 602	EPA - WP 879 CONC.1		560		ļ	
	Benzene	30.7	25.9	84		
	Toluene	4.1	3.9	96		
	Ethylbenzene	11.5	8,9	77		
	P-Xylene	19.1	19. Y	102	-	
	M-Xylene	42.6	39, 3	92		
	0-Xylene	10.6	10.5	-71		
EPA 608		(ug/g)				
	Aroclor 1242	58.7				
	Aroclor 12:0	56.8				

DAILY QUALITY CONTROL RAS GC LAB

DATE:	4 25 37		SPIKED VALUE (u./L)	Analyzed Value	Z Recovery	Analyzed Value	% Recovery
		INSTRUMENT		G	G		D
TEST METHOD	COMPOUND	******					
EPA 601	EPA WP 483 C	· -					
	AND_WP_781_CO						
	Methylene Chl		9.2				
	1.1-Dichloroe		10.0				
	Trans-1.2-Dic	hloroethylene		la a	39		<u> </u>
	Chloroform		43.012.0	10.7	220		
	1.2-Dichloroe		27.60.0	1.7	191		
	1.1.1-Trichlo		14.31.4	2.7			
	Carbon Tetrac		20.03-6		121		
	Bromodichloro		7.92.0	2.4			
	1.2-Dichlorop		8.0	2.8	95		
	Trichloroethe		22.22.5	2.5	73		
	Dibromochloro	methane	16.70.6		 		
	Bromoform		2.93.9	2,3	79		
	1.1.2.2-Tetra		10.0	1.4	87		
	Tetrachloroet		6.21.6		01		
	Chlorobenzene		8.2				
EPA 602	EPA - WP 879	CONC.1				28.7	93
	Benzene		30.7				
	Toluene		4.1		 	4.1	180
	Ethylbenzene		11.5			9,0	104
	P-Xylene		19.1				96
	M-Xylene		42.6			10.8	109
	0-Xylene		10.6			10.0	100
EPA 608			(ug/g)				
	Aroclor 1242		58.7		 		
	Aroclor 1260		56.8		L		·

POOR INTOGRETION

#8608095

RADIAN

860258: 611, 602, 625, Netrels, 646, 146, 14860257 800258: 611, 602, 625, Netrels, 646, 16 F, 16, 14860257 800258: " 820258

CHAIN OF CUSTODY RECORD

820259

	Fie	ld Sample No.		
Company Sampled Address Plan	+4	\		
Sample Point Description Colors	A worder			
Stream Characteristics:				
	Flow	pH		
		1		
Collector's Name Alenda Vo	Date/Time Sampled	8/21/82 /815		
Amount of Sample Collected 4 m456	in 3.12 Nashe 3. Sound alash	4. 11 alass, 1200		
Sample Description ground w	24			
Store at: ☐ Ambient ☐ 5°C ☐ -	10°C BOther 4°C			
56		Discoud conceed participa		
1	☐ Return unused portion of sample ☐			
Other Instructions · Special Handling ·	Hazards			
				
∯Hazardous sample (see below)	□ Non-hazardou	s sample		
Toxic	☐ Skin irritant	☐ Flammable (FP< 40		
Pyrophoric	☐ Lachrymator	□ Shock sensitive		
□ Acidic	☐ Biological	₾ Carcinogenic - susp		
□ Caustic	☐ Peroxide	☐ Radioactive		
Other				
Sample Allocation/Chain of Possessio	n:			
Organization Name Bullium	Date Received			
Received By	Date Received	Time		
Transported By Mending of	Lab Sample No. 🛠 😉 🗀	2 003		
Comments				
nclusive Dates of Possession ///	5/21/56			
Organization Name				
Received By	U Date Received	12 46 Time (830)		
ransported By WJ	Lab Sample No. 1097	3,(45		
•	,			
	1			
				
	Date Received			
	Lab Sample No			
	Lab Sample No			
INCLUSIVE DATES OF POSSESSION				

Form II

Client ID PLANT 4	Compiled	9-10-86
Workorder <u>86-08-095</u>	Submitted	9-10-86

INITIAL AND CONTINUING CALIBRATION VERIFICATION 1

Units Jug/m/

_	Run		ial Cali			·	Contin	uing Cal	ibratio	n
Parameter	Date	True	Found	SR	True	Found	5R	Found	≅R	Found
_Ag	9-9-86	2.00	1.82	91	2.00	1.87	94			
Ba	8-28-86	2.00	2.10	105	2.00	2.12	106	2.14	107	
Cd	8-28-86	2.00	2.03	102	2.00	2.10	105	2.11	106	
Cr	9-9-86	2.00	4.01	100	2.00	2.12	106			
As	8-26-86	0.043	0.039	91_	0.043	0.041	95	0.043	100	
РЬ	1 '				0.045	§	1			
se_		0.050			0.050]	1			
Hg	,	0.0060		_	Π		110			
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1.	Control	Limits	for	βR:	ICPES	
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Form III

Client ID PLANT 4		Compiled _	9-10-86
Workorder <u>86-08-095</u>			9-10-86
		Matrix	aguerens
	DIANKS		

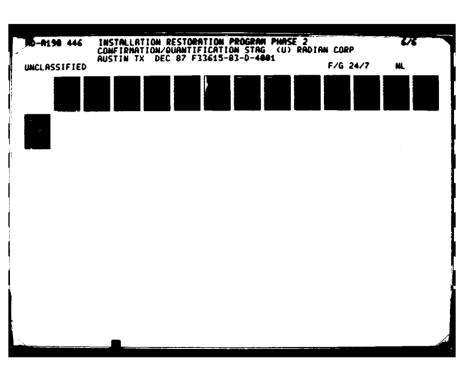
BLANKS

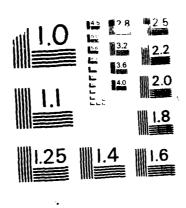
Units ug/ml

		<u>Initial</u> Calibration	Conti	nuing Callb Blank Valu		<u>Prepar</u> Blank	
Parameter	IDL	Blank Value	1	2	3	1	2
Ag	0.002	<0.002	<0.002			<0.002	
Bq	0.001	<0.001	<0.001	<0.001		20.001	
Cd	0.002	<0.002	0.003*	<0.002		20.002	
Cr	0.005	< 0.005	<0.005			< 0.005	
					:-		
As	0.003	<0.003	<0.003	<0.003		<0.003	
Pb	0.001	<0.001	<0.001			0.004	
se_	0.007	0.002	<0.002			<0.002	
На	0.0003	<u> </u>	!	· · · · · · · · · · · · · · · · · · ·		0,0002	
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^{1.} IDL = Instrument Detection Limit

^{*} Indicates value is less than 5X the IDL.





MICROCOPY RESOLUTION TEST CHART

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CONTRACTOR CONTRACTOR

Form Y

Client ID <u>PLANT 4</u>	Compiled	9-10-86
Morkorder <u>86-08-095</u>	Submitted	9-10-86

SPIKED SAMPLE RECOVERY

Spiking method <u>analytical</u>

Units ug/ml

							/ //	
Parameter	Sample No.	Control Limit of %R	Spiked Sample Result (SSR)	Sample Result(SR)	Spike Added (SA)	D.F.	%R ¹	%R Flag ²
A5	095-01		0.041	0.017	0.025		96	<u> </u>
Pb	095-05		0.035	0.008	0.025		108	
5e	095-01		0.023	<0.002	0.025		92	
	11							<u> </u>
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<u> </u>	1							<u></u>
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	1							
							1	<u></u>
<u></u>								
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						-		

- * Indicates value is less than 5X IDL. (IDL=instrument detection limit)
- 1. \$R = Percent Recovery = L(SSR SR)/SA] X 100
- 2. a=For analytical spike: %R was within control limit only after sumple dilution, which may indicate matrix interferences.

B=Sample result was greater than 4 times spike added concentration, therefore spike added concentration is considered insignificant. $\kappa 477$

Form Y

Client ID PLANT 4	Compiled	9-10-86
Workorder <u>86-08-095</u>	Submitted	
	Matrix	aqueous
SPIKED SA	MPLE RECOVERY	
Spiking method .	que-digestion	

Units ug/ml

Parameter	Sample No.	Control Limit of%R	Spiked Sample Result (SSR)	Sample Result(SR)	Spike Added (SA)	D.F.	%R ¹	%R Flag ²
Aq	095-02	75-125	1.03	< 0.003	1.00		102	
Ag Ba			1.01	0.16	1.00		85	
Cd			0.84	0.006*	1.00		83	
Cr		V	0.83	0.009*	1.00		83	
Нд	095-05	75-125	0.0040	<0.0002	0.0040		100	
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	-							
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<u></u>								
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- Indicates value is less than 5X IDL. (!DL=instrument detection | imit)
- 1. \$R = Percent Recovery = L(SSR SR)/SA] X 100
- 2. a=For analytical spike: %R was within control limit only after sample dilution, which may indicate matrix interferences.

B=Sample result was greater than 4 times spike added concentration, therefore spike added concentration is considered insignificant. 6478

Form VI

Client ID PLANT 4	Compiled	9-10-86
Workorder	Submitted	
	Matrix	aguerus

DUPLICATES

Type <u>analyacal</u>

Units ug/al

					, 0	
Parameter	Sample No.	Control Limit	Sample (S)	Duplicate (D)	RPD 1	RPD Flag ²
As	095-03		0.086	0.084	2.4	<u> </u>
Pb	095-05		0.008	0.009	12	
5e	095-02	. —	0.005*	0.005	NC	<u> </u>
<u> </u>						
			<u> </u>			
			<u> </u>			
			<u> </u>			
						
						
	 					
						
						
	 					
	 					
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	 				<u> </u>	ļ
						<u> </u>

- # Indicates value is less than 5X IDL. (IDL=instrument detection limit)
- 1. RPD=Relative percent difference=[|S-D|/((S+D)/2)]X100.

2. NC_1 =Not calculable due to a value less than 5X the IDL.

NC'=Not calculable due to a value less than the CRDL. (Contract Required Detection Limit)

⁼RPD out of control limit for matrix duplicate, which may indicate non-homogeneity of the sample.

Form VI

Client ID <u>PLANT 4</u>	Compiled	9-10-86
Workorder <u>86-08-095</u>	Submitted	
	Matrix	agueres

DUPLICATES

Type <u>digistion</u>

					, 0	
Parameter	Sample No.	Control Limit	Sample (S)	Duplicate (D)	RPD 1	RPD Flag ²
Ag	095-01		<0.002	<0.002	NC	NC
Ag Bo			0.036	0.037	2.7	
Cd			<0.002	0.004 *	NC	NC
<u>Cr</u>	1		0.007	0.005	NC	NC
		·				
· ·· · · · · · · · · · · · · · · · ·			 			
						
			 			
						
			 			
			 			
			 			
	 		 			
	, ,		ì	1	i	i

- !ndicates value is less than 5X IDL. (IDL=instrument detection limit)
- RPD=Relative percent difference=[|S-D|/((S+D)/2)]X100.
- 2. NC =Not calculable due to a value less than 5X the IDL.

 NC =Not calculable due to a value less than the CRDL. (Contract Required Detection Limit)
 - A =RPD out of control limit for matrix duplicate, which may indicate non-homogeneity of the sample.

43-01-6

CONTROL DAIN DONE DAIN DONE DAIN

Workorder 26-08-095

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VERIFICATION STDS, DUPL ICATE ANALYSIS FOUND TRUE \$R SAMP SAMP DUPL 102 105 94 104 105 94 105 94 106 94 107 108 94 108 94 109
CALIBRATION STDS. FOUND TRUE \$R 101 105 94 92 105 94 93 93 93

RPD = [(/S-D/)/((S+D)/2)]x100
RPD = Relative Percent Difference
NC = Noncalculable
NCl = Noncalculable due to values
<5x's the IDL

SPIKE %R = [(SSR-SR)/SA]x100
* = Yalue is less than five times
the instrument detection limit
IDL = Instrument Detection Limit

A = Analytical P = Predigestion

	•	2016 de 6 81x 221
RADIAN TO 20	us Michaely, or -	3/20/30 (3/0/45
		8/20/30 2 100 261
puistic stude	CHAIN OF CUSTODY RECORD	Field Sample No.
to stillentes	Millian, me, And	• · · · · · · · · · · · · · · · · · ·
Company Sampled / Address	Mart 4	
Sample Point Description	J. red Taken	
Stream Characteristics:		
	Flow	рН
Visual Observations/Comments_		
		-1 E/11 - 8/m /
Collector's Name Allender	Constant Date/Time Sample	ed <u>1/20 - 3/3 /3 -</u>
Amount of Sample Collected 2/22	nasin 4 18 plastic, 1 11,	years, 6 VOFS
	-/ - 0 ~ /	
Store at: ☐ Ambient ☐ 5°C	□ -10°C □-Other _ 4° C	
,	lable Return unused portion of samp	
,	ling · Hazards	
Hazardous sample (see below)	☐ Non-haza	ardous sample
Toxic	☐ Skin irritant	☐ Flammable (FP< 40°
Pyrophoric	☐ Lachrymator	□ Shock sensitive
☐ Acidic	☐ Biological	☐ Carcinogenic - suspe
☐ Caustic	☐ Peroxide	☐ Radioactive
Other		
Sample Allocation/Chain of Poss	ession:	
Organization Name	Date Received	
Received By	Date Received	d Time
Columents		
Inclusive Dates of Possession	1/2 - 2/1/3 m	
Inclusive Dates of Possession	Efficie - 2/21/3 10	
Inclusive Dates of Possession	Efficie - 2/21/3 10	
Inclusive Dates of Possession Organization Name Received By	Date Receive	d Time
Inclusive Dates of Possession Organization Name Received By Transported By	Date Received	d Time
Inclusive Dates of Possession	Date Received	d Time
Inclusive Dates of Possession	Date Received	d Time
Inclusive Dates of Possession	Date Received	d Time
Inclusive Dates of Possession	Date Received Lab Sample No Date Received	d Time
Inclusive Dates of Possession	Date Received	d Time

Inclusive Dates of Possession



560361 bel, Got, Ch. iletate an Cores,

CHAIN OF CUSTODY RECORD

		Field Sample No. 360 26/
Company Sampled / Address		
Sample Point Description 910000	teste	
Stream Characteristics:		
Temperature	Flow	рН
Visual Observations/Comments		
Collector's Name <u>h/c////h/n</u> Amount of Sample Collected <u>2 n/s</u> Sample Description <u>91010000</u> Store at: Ambient 5°C -	21564 Date/Time Sampled	1 8/11/57 , 1200
Amount of Sample Collected Z mus.	1 1100 2 11 2165th 1 527	mi plastic / 10cks
Sample Description 91010000	when '	14 1/15
Store at: Ambient 5°C -	10°C TOther 4°C	
Caution · No more sample available	☐ Return unused portion of sample	☐ Discard unused portions
Other Instructions - Special Handling -		
4.6.		
() Hazardous sample (see below)	☐ Non-hazard	dous sample
TyToxic	☐ Skin irritant	☐ Flammable (FP< 40°C
☐ Pyrophoric	☐ Lachrymator	□ Shock sensitive
□ Acidic	☐ Biological	☑ Carcinogenic · suspec
□ Caustic	☐ Peroxide	☐ Radioactive
□ Other		
Sample Allocation/Chain of Possessio	n·	
Organization Name <u>Stactor</u> Received By Transported By Comments	"C1:3"	
Pacaised By	Data Received	Time
Transported By Jalen C. S. S.	Date Necested	-08-096
Comments	Lab Sample No.	
Inclusive Dates of Possession		
,		
Organization Name		
Received By		
Fransported By		
Comments		
nclusive Dates of Possession		
Organization Name		
Received By	Date Received	Time
Transported By	Lab Sample No	
Comments		
nclusive Dates of Possession		

Gross Alpha.Gross Beta Analysis

Sample I.D. ------BLANK DIW Sample Size------ 0.5000 (3) L or q Areal Density: Tare Weight: filter/planchet---- 7.1736 filter/planchet+sample 7.1738 sample weight-----0.25 Original, Solid or Liquid: for solid:1, for liq:2--2.00 (2)Areal Density P/10.18(s) or P/19.63(1) 0.01 – (A) mg/cm∑ Sample Count Time: in Hours-----1.67 iT: Background Count Time: in Hours-----10.00 (TB) Self Absorption Factor: Self Absorption Factor Alpha Count-----(WA) 0.85 Beta Counts-----3, F. W E Instrument Constant instrument Constant Alpha-----0.02 (FA) Beta-----1 E Total Counts: Total Counts: Alpha-----7.00 (CA) Beta----J. E. Background Counts: Background Counts: Seta---- 551.03 Alpha-----36.00 (BA) 1 F F. 1 Calculated Net Rate: Calculated Net Fate: Alpha (pC1/L)-----0.03 (DA) Beta :DC: L:----- 2 E Deviation: Deviation: Alpha (sC1/L)-----0.27 Beta (pî:/L/----Quantification Limit: Quantification Limit: Alpha (pC1/L:-----0.78 Bata (pû::[:-----Final Pesults: Note - Calculated Rate is below Detection Limit

(0.4)

- Beta (DU1/L:------

Alpha (pC1.L)+-----

Gross Alpha/Gross Eeta Analysis

Contract Name	RAS- FLA	NT 4	
Sample Size Areal Density: Tare Weight:	0.5000	(\$)	L or g
filter/planchet	7.2457		
filter/planchet+sample	7.2460		
sample weight Original, Solid or Liquid:	0.29	(P)	mg
for solid:1, for liq:2 Areal Density	2.00	(2)	
P/10.18(s) or P/19.63(l) Sample Count Time:	0.01	(A)	mg/cm2
in Hours	1.67	(T)	
ackground Count Time:	10.00	(TB)	
elf Absorption Factor:	0.07	(1)	Self Absorption Factor
Alpha Count nstrument Constant	0.86	(WA)	Beta Counts 0.71 (พริ Instrument Constant
Alphaotal Counts:	0.02	(KA)	Beta
Alphaackground Counts:	7.00	(CA)	Beta
Alphaalculated Net Rate:	43.00	(BA)	Beta
Alpha (pCi/L)	-0.01	(DA)	Beta (pCi/L) 0.51 (pp Deviation:
Alpha (pCi/L)	0.29		Beta (pCi/L/+ 0.4a Quantification cimit:
Alpha (pC1/L)	0.82		Beta (pC:/L) 1.62

Gross Alpha/Gross Seta Analysis

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Sample I.DMIXED SR-90 .5ML AND AM-241 1000						
Contract Name	RÁS- PLÁN	iT 4				
Sample SizeAreal Density: Tare Weight:		(8)	L or g			
filter/planchet	7.2023					
filter/planchet+sample	7.2024					
sample weight Original, Solid or Liquid:	0.09	(P)	n g			
for solid:1, for liq:2 Areal Density	2.00	(?)				
P/10.18(s) or P/19.63(l) Sample Count Time:	0.00	(A)	mg/cm2			
in Hours	1.67	(T)				
in Hours Self Absorption Factor:	10.00	(TB)	Self Absorption Factor			
Alpha Count Instrument Constant	0.86	(WA)	Beta Counts 0.91 WE: Instrument Constant			
Alpha Total Counts:	0.02	(kA)	Beta			
AlphaBackground Counts:	160.00	(EA)	Beta			
AlphaCalculated Net Rate:	47.00	(BA)	Beta			
Alpha (pCi/L) Deviation:	2.40	(DA)	Beta (pCi/L) 5.56 (D3) Deviation:			
Alpha (pCi/L) Quantification Limit:	0.29		Beta (pCi/L) 0.51 Quantification Limit:			
Alpha (pCi/L)	0.42		Beta (pC1/L) 0.82			
Final Results: Alp:a (pCi/L)	2.40 (0.3) Beta (pC:/L) 9.55 (0.5)			

Gross Alpha.Gross Seta Analysis

Sample I.DSR-90 STD 0.5ML							
Contract Name	RAS- PLAM	47 4					
Sample Size Areal Density: Tare Weight:	1.0000	(5)	L or q				
filter/planchet	7.2018						
filter/planchet+sample	7.2019						
sample weight	0.04	(P)	φg				
Original, Solid or Liquid: for solid:1, for liq:2 Areal Density	2.00	(^)					
P/10.18(s) or P/19.63(1)	0.00	(A)	mg/cm2				
Sample Count Time: in HoursBackground Count Time:	1.67	(T)					
in Hours	10.00	(TB)	Self Absorption Factor				
Self Absorption Factor: Alpha Count Instrument Constant	0.86	(WA)	Beta Counts 0.91 (WB) Instrument Constant				
Alpha	0.02	(KA)	Beta				
Alpha	6.00	(CA)	Betahrenenenenen ob4 (CB) Background Counts:				
Background Counts: Alpha Calculated Net Rate:	47.00	(BA)	Beta				
Alpha (pC1/L) Deviation:	-0.03	(DA)	Beta (pOi/L) 7,53 (DB Deviation:				
Alpha (pC1/L)	0.15		Beta (pCi/L) 0.48 Quantification cimit:				
Quantification Limit: Alpha (pCi/L)	0.42		Beta (pCi/L) (.82				
Final Results: Note - Calculated Rate is below Detection Limit							
Alpha (pC1/L)	ζ (0.3) Beta (pDi/E) 7.53 (0.5)				

Gross Albha/Gross Beta Analysis

Sample 1.0.+	Am-241 ST	D 199	L
Contract Name	RAS- PLAN	IT 4	
Bample Bizer	1.0000	(5)	L or g
Areal Density:			
Tare Weight:			
filter/planchet	7.2771		
filter/planchet+sample	7.2772		
sample weight	0.06	(F)	ng
Original, Solid or Liquid:			
for solid:1, for liq:2	2.00	(7)	
Areal Density			
P/10.18(s) or P/19.63(1)	0.00	(Å)	காழ் ⊂கு2
Sample Count Time:			
in Hours	1.57	(T)	
Background Count Time:			
in Hours	10.00	(TB)	
Self Absorption Factor:			Self Absorption Factor
Alpha Count	0.86	(WA)	Beta Counts+++++ - 0.91 (WE)
Instrument Constant			instrument Constant
Alpha	0.02	(KA)	Beta
Total Counts:			Totai Jounts:
Alpha	158.00	CAL	Beta
Background Counts:			Background Counts:
Alpha	56.00	(BA)	Beta 575.v0 :388
Calculated Net Rate:			Salculated Net Rate:
Alpha (pCi/L)	2.34	(DA)	Beta (pC1/L) 3.7a (DP)
ūeviation:			Deviation:
Alpha (pCi/L)	0.30		Beta (DC1/1/ 9.27
Quantification Limit:			Quantification class:
Alpha (pCi/L)	0.44		Beta (pūi/p:====================================
Final Results:			
Alpha (pC1/L)	2.34 (0.3) Beta (p01/6/+ 0.78 c 0.3

<u>L</u> (V) FILMED DTIC